

UPLINK TRANSMISSION DROP METHOD, UPLINK TRANSMISSION DROP CONFIGURATION METHOD, AND RELATED DEVICE

CROSS-REFERENCE TO RELATED APPLICATIONS

5 **[0001]** This application claims priority to Chinese Patent Application No. 201910600646.6, filed in China on July 04, 2019, which is incorporated herein by reference in its entirety.

TECHNICAL FIELD

10 **[0002]** This disclosure relates to the field of communications technologies, and in particular, to an uplink transmission drop method, an uplink transmission drop configuration method, and a related device.

BACKGROUND

15 **[0003]** With development of communications technologies, one terminal may be equipped with various transceivers that support different radio access network technologies (Radio Access Technology, RAT), for example, a long term evolution (Long Term Evolution, LTE) transceiver, a 5th generation communications network (5th-Generation, 5G) transceiver, a wireless network Wi-Fi transceiver, a Bluetooth transceiver, and a global navigation satellite system (Global Navigation Satellite System, GNSS) transceiver.

20 **[0004]** In conventional technology, a receiver of the terminal receives interference from transmitters of the UE at adjacent or harmonic frequencies. For example, in a case that an LTE transmission frequency of the terminal interferes

with frequencies of other wireless technologies (for example, Wi-Fi), the network device may configure an uplink transmission drop rate for the terminal, so that the terminal can drop uplink transmissions based on that drop rate. However, dropping uplink transmissions by the terminal only based on the drop rate is less targeted.

- 5 For example, in a case that the terminal has a plurality of different uplink transmissions corresponding to different service types, different uplink transmissions have different priorities. If uplink transmission dropping is directly based on a configured rate, the terminal may drop uplink transmissions of some low-latency and high-reliability services, so that delay and reliability performance
- 10 of uplink transmissions of low-latency and high-reliability services cannot be guaranteed. Therefore, in conventional technology, there is a problem that uplink transmission dropping is less targeted in uplink transmission drop procedures.

SUMMARY

- [0005] Embodiments of this disclosure provide an uplink transmission drop method, an uplink transmission drop configuration method, and a related device, so
- 15 as to resolve the problem that uplink transmission dropping is less targeted in uplink transmission drop procedures.

- [0006] According to a first aspect, an embodiment of this disclosure provides an uplink transmission drop method, applied to a terminal and including:
- 20 receiving configuration information transmitted by a network device, where the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information; and

- dropping uplink transmissions based on the uplink transmission drop
- 25 parameters.

[0007] According to a second aspect, an embodiment of this disclosure provides an uplink transmission drop configuration method, applied to a network device and including:

transmitting configuration information, where the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

5 **[0008]** According to a third aspect, an embodiment of this disclosure further provides a terminal, including:

 a receiving module, configured to receive configuration information transmitted by a network device, where the configuration information is used for configuring target service information for uplink transmissions and uplink
10 transmission drop parameters corresponding to the target service information; and

 a first transmitting module, configured to drop uplink transmissions based on the uplink transmission drop parameters.

[0009] According to a fourth aspect, an embodiment of this disclosure provides a network device, including:

15 a second transmitting module, configured to transmit configuration information, where the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

[0010] According to a fifth aspect, an embodiment of this disclosure further
20 provides a terminal, including a memory, a processor, and a program stored in the memory and capable of running on the processor, where when the program is executed by the processor, the steps of the uplink transmission drop method are implemented.

[0011] According to a sixth aspect, an embodiment of this disclosure further
25 provides a network device, including a memory, a processor, and a program stored in the memory and capable of running on the processor, where when the program is executed by the processor, the steps of the uplink transmission drop configuration method are implemented.

[0012] According to a seventh aspect, an embodiment of this disclosure further
30 provides a computer-readable storage medium, where a computer program is stored

in the computer-readable storage medium. When the computer program is executed by a processor, the steps of the uplink transmission drop method described above are implemented, or when the computer program is executed by the processor, the steps of the uplink transmission drop configuration method described above are
5 implemented.

[0013] In the embodiments of this disclosure, the target service information for uplink transmissions and the uplink transmission drop parameters corresponding to the target service information are configured, and uplink transmissions are dropped based on the uplink transmission drop parameters. As such, uplink transmissions
10 can be dropped for specified target service information. Therefore, uplink transmission dropping is more targeted in uplink transmission drop procedures.

BRIEF DESCRIPTION OF DRAWINGS

[0014] FIG. 1 is a structural diagram of a network system to which an embodiment of this disclosure may be applied;

15 [0015] FIG. 2 is a flowchart of an uplink transmission drop method according to an embodiment of this disclosure;

[0016] FIG. 3 is a flowchart of an uplink transmission drop configuration method according to an embodiment of this disclosure;

20 [0017] FIG. 4 is a structural diagram of a terminal according to an embodiment of this disclosure;

[0018] FIG. 5 is a structural diagram of a network device according to an embodiment of this disclosure;

[0019] FIG. 6 is a structural diagram of another terminal according to an embodiment of this disclosure; and

25 [0020] FIG. 7 is a structural diagram of another network device according to an embodiment of this disclosure.

DESCRIPTION OF EMBODIMENTS

[0021] The following clearly and completely describes the technical solutions in the embodiments of this disclosure with reference to the accompanying drawings in the embodiments of this disclosure. Apparently, the described embodiments are
5 some rather than all of the embodiments of this disclosure. All other embodiments obtained by a person of ordinary skill in the art based on the embodiments of this disclosure without creative efforts shall fall within the protection scope of this disclosure.

[0022] In the specification and claims of this application, the terms "including",
10 and any other variants mean to cover a non-exclusive inclusion. For example, a process, method, system, product, or device that includes a list of steps or units is not necessarily limited to those steps or units, but may include other steps or units not expressly listed or inherent to such a process, method, product, or device. In addition, in the specification and claims, the use of "and/or" represents presence of
15 at least one of the connected objects, for example, "A and/or B" indicates that the following three cases: only A, only B, or both A and B.

[0023] In the embodiments of this disclosure, terms such as "an example" or "for example" are used to represent giving an example, an instance, or an illustration. Any embodiment or design solution described as "an example" or "for
20 example" in the embodiments of this disclosure shall not be interpreted as being more preferred or advantageous than other embodiments or design solutions. Specifically, the terms such as "an example" or "for example" are used to present related concepts in a specific manner.

[0024] The following describes the embodiments of this disclosure with
25 reference to the accompanying drawings. An uplink transmission drop method, an uplink transmission drop configuration method, a terminal, and a network device provided in the embodiments of this disclosure may be applied to a wireless communications system. The wireless communications system may be a 5G system,

or an evolved long term evolution (Evolved Long Term Evolution, eLTE) system, or a later evolved communications system.

[0025] Referring to FIG. 1, FIG. 1 is a structural diagram of a network system to which an embodiment of this disclosure may be applied. As shown in FIG. 1, the network system includes a terminal 11 and a network device 12. The terminal 11 may be user equipment or other terminal-side devices such as a mobile phone, a tablet personal computer (Tablet Personal Computer), a laptop computer (Laptop Computer), a personal digital assistant (personal digital assistant, PDA), a mobile Internet device (Mobile Internet Device, MID), or a wearable device (Wearable Device). It should be noted that a specific type of the terminal 11 is not limited in the embodiments of this disclosure. The network device 12 may be a 5G base station, or a base station of a later version, or a base station in other communications systems, or may be referred to as a NodeB, or an evolved NodeB, or a transmission reception point (Transmission Reception Point, TRP), or an access point (Access Point, AP), or other terms in the field. Provided that a same technical effect is achieved, the network device is not limited to any specific technical term. In addition, the network device 12 may be a master node (Master Node, MN) or a secondary node (Secondary Node, SN). It should be noted that, in the embodiments of this disclosure, the 5G base station is used as only an example, and the network device is not limited to any specific type.

[0026] Referring to FIG. 2, FIG. 2 is a flowchart of an uplink transmission drop method according to an embodiment of this disclosure. The method is applied to a terminal. As shown in FIG. 2, the method includes the following steps:

[0027] Step 201. Receive configuration information transmitted by a network device, where the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information; and

[0028] Step 202. Drop uplink transmissions based on the uplink transmission drop parameters.

[0029] In this embodiment of this disclosure, a network device can configure different uplink transmissions corresponding to different uplink transmission drop parameters for the terminal, and different uplink transmissions can be understood as uplink transmissions having different target service information. In other words, in an optional embodiment, the target service information is in one-to-one correspondence to the uplink transmission drop parameters. Certainly, in another embodiment, a plurality of target service information may be set to correspond to one uplink transmission drop parameter.

[0030] The uplink transmission drop means dropping part of uplink transmissions, for example, dropping uplink transmissions in 1 slot out of 100 slots for the target service information.

[0031] In this embodiment of this disclosure, the target service information for uplink transmissions and the uplink transmission drop parameters corresponding to the target service information are configured, and uplink transmissions are dropped based on the uplink transmission drop parameters. As such, uplink transmissions can be dropped for specified target service information. Therefore, uplink transmission dropping is more targeted in uplink transmission drop procedures. In this way, delay and reliability performance of uplink transmissions for a low-latency and high-reliability service can be guaranteed in uplink transmission drop procedures.

[0032] In an optional embodiment, the uplink transmission drop parameter is used to indicate any one of the following:

[0033] Indication manner 1: an uplink transmission drop number or an uplink transmission drop rate for first service information in uplink transmissions corresponding to the first service information;

[0034] Indication manner 2: an uplink transmission drop number or an uplink transmission drop rate for second service information in uplink transmissions corresponding to N pieces of first service information, where N is an integer greater than 1 and the second service information is one of the N pieces of first service information;

[0035] Indication manner 3: a number of uplink transmission drops for the first service information or the second service information within a preset period; and

[0036] Indication manner 4: an uplink transmission drop rate for the first service information or the second service information within a preset period; where

5 the first service information is service information contained in the target service information.

[0037] In this embodiment of this disclosure, one or more pieces of service information may be contained in the target service information, and the first service information may be one piece of service information in the target service
10 information.

[0038] It should be noted that if the corresponding uplink transmission drop parameter is not configured for one given piece of service information in the target service information, its uplink transmissions can be dropped based on a default allowed drop number or allowed drop rate, or based on an allowed drop number or
15 allowed drop rate that is uniformly configured by the network device.

[0039] In the foregoing indication manner 1, an uplink transmission drop number or an uplink transmission drop rate may be specifically indicated for each piece of service information in the target service information.

[0040] In the foregoing indication manner 2, the N pieces of first service
20 information may be a group of service information in the target service information.

Specifically, the target service information may include one or more groups of service information (each group of service information may include an identical or different number of pieces of service information), and one piece of first service information in the N pieces of first service information may be set to be dropped. In
25 this embodiment of this disclosure, service information under one service type is classified into one group.

[0041] In the foregoing indication manner 3 and indication manner 4, a time length of the preset period may be set based on actual needs, for example, set to 100 ms.

[0042] It should be noted that the uplink transmission drop parameter may vary with the content indicated by the transmission drop parameter. For example, in an optional embodiment, in a case that the uplink transmission drop parameter is used to indicate uplink drop data, the foregoing indication manner 1 to indication manner 5 3 are described in detail.

[0043] In a first embodiment, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for first service information in uplink transmissions corresponding to the first service information, the uplink transmission drop parameter includes a number of first uplink 10 transmissions corresponding to the first service information and an allowed number of drops in the number of first uplink transmissions.

[0044] In this embodiment, for example, the high-reliability physical uplink shared channel (Physical Uplink Shared Channel, PUSCH) has uplink transmissions in 100 slots, and uplink transmissions of the high-reliability PUSCH 15 in 1 slot are allowed to be dropped.

[0045] In a second embodiment, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for second service information in uplink transmissions corresponding to N pieces of first service information, the uplink transmission drop parameter includes a number of second 20 uplink transmissions and an allowed number of drops for the second service information in the number of second uplink transmissions, where the number of second uplink transmissions is a sum of numbers of uplink transmissions corresponding to the N pieces of first service information.

[0046] In this embodiment, for example, high-reliability and 25 common-reliability PUSCHs have uplink transmissions in 100 slots, and uplink transmissions of the high-reliability PUSCH in 1 slot are allowed to be dropped.

[0047] In a third embodiment, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for the first service information or the second service information within a preset period, the 30 uplink transmission drop parameter includes duration of the preset period and an

allowed number of dropped third uplink transmissions for the first service information or the second service information within the preset period.

[0048] In this embodiment, for example, the preset period is 100 ms, or 100 consecutive uplink slots, or 100 slots (including uplink slots and downlink slots),
5 and uplink transmissions of the high-reliability PUSCH in 1 slot are allowed to be dropped within the preset period.

[0049] It should be noted that in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop rate, the uplink transmission drop parameter may include a drop rate (for example, a drop rate for
10 the high-reliability PUSCH is two percent, which means that uplink transmissions of the high-reliability PUSCH in 2 slots are allowed to be dropped out of uplink transmissions of the high-reliability PUSCH in 100 slots), or a drop rate can be indicated in the same way as the uplink transmission drop number is indicated.

[0050] Optionally, the target service information includes service information
15 corresponding to at least one of the following service types:

- channel type;
- uplink transmission priority;
- logical channel index;
- logical channel priority;
- 20 reliability grade; and
- latency grade.

[0051] The channel type may include one of PUSCH, physical uplink control channel (PUCCH, Physical Uplink Control Channel), physical random access channel (Physical Random Access Channel, PRACH), and sounding reference
25 signal (SRS).

[0052] Further, in a case that there are at least two pieces of third service information under one service type of one target uplink transmission, fourth service information of the target uplink transmission is determined according to a configuration by a network device or a protocol specification, where the fourth
30 service information is one of the at least two pieces of third service information.

[0053] In an optional embodiment, in a case that the service type corresponding to the third service information is uplink transmission priority or logical channel priority, the fourth service information is first priority information, where a priority corresponding to the first priority information is higher or lower than a priority corresponding to the second priority information, the first priority information is one of the at least two third service information, and the second priority information is priority information corresponding to service information other than the fourth service information in the at least two pieces of third service information.

[0054] In this embodiment, for example, in a case that the service type is uplink transmission priority and PUSCH includes data of priority 1 and priority 2, the at least two pieces of third service information include the uplink transmission priority 1 and uplink transmission priority 2. As such, in a case that the first priority information is the uplink transmission priority 1, the second priority information is the uplink transmission priority 2; in a case that the first priority information is the uplink transmission priority 2, the second priority information is the uplink transmission priority 1.

[0055] For example, in a case that the service type is logical channel priority and PUSCH includes data of logical channel priority 1 and logical channel priority 2, the at least two pieces of third service information include the logical channel priority 1 and logical channel priority 2. As such, in a case that the first priority information is the logical channel priority 1, the second priority information is the priority 2 of logical channel; in a case that the first priority information is the priority 2 of logical channel, the second priority information is the logical channel priority 1.

[0056] In another optional embodiment, in a case that the service type corresponding to the third service information is logical channel index, the fourth service information is first logical channel index information, where a logical channel index corresponding to the first logical channel index information is greater or less than a logical channel index corresponding to second logical channel index information, the first logical channel index information is one of the at least two

pieces of third service information, and the second logical channel index information is logical channel index information corresponding to service information other than the fourth service information in the at least third service information.

5 **[0057]** In this embodiment, for example, in a case that the service type is logical channel index and PUSCH includes data of logical channel index 1 and logical channel index 2, the at least two pieces of third service information include the logical channel index 1 and logical channel index 2. As such, in a case that the first priority information is the logical channel index 1, the second priority
10 information is the logical channel index 2; in a case that the first priority information is the logical channel index 2, the second priority information is the logical channel index 1.

[0058] In another optional embodiment, in a case that the service type corresponding to the third service information is reliability grade or latency grade,
15 the fourth service information is first grade information, where a grade corresponding to the first grade information is higher or lower than a grade corresponding to the second grade information, the first grade information is one of the at least two pieces of third service information, and the second grade information is grade information corresponding to service information other than
20 the fourth service information in the at least third service information.

[0059] In this embodiment, for example, in a case that the service type is reliability grade and PUSCH includes data of reliability grade 1 and reliability grade 2, the at least two pieces of third service information include the reliability grade 1 and reliability grade 2. As such, in a case that the first priority information
25 is the reliability grade 1, the second priority information is the reliability grade 2; in a case that the first priority information is the reliability grade 2, the second priority information is the reliability grade 1.

[0060] For example, in a case that the service type is latency grade and PUSCH includes data of latency grade 1 and latency grade 2, the at least two pieces of third
30 service information include the latency grade 1 and latency grade 2. As such, in a

case that the first priority information is the latency grade 1, the second priority information is the latency grade 2; in a case that the first priority information is the latency grade 2, the second priority information is the latency grade 1.

5 **[0061]** For better understanding of this disclosure, the following describes the embodiments of this disclosure in detail.

[0062] In an embodiment of this disclosure, uplink transmission dropping specifically includes the following step 1 and step 2:

[0063] Step 1: A network device configures uplink transmission drop parameters corresponding to different uplink transmissions for a terminal.

10 **[0064]** The "uplink transmission drop parameters corresponding to different uplink transmissions" include target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

15 **[0065]** The target service information includes service information corresponding to at least one of the following service types:

 channel type (for example, PUSCH, or PUCCH, or SR, or PRACH, or SRS);

 uplink transmission priority (for example, priority 1);

20 logical channel index corresponding to uplink transmission (for example, data transmission corresponding to logical channel 1);

 logical channel priority corresponding to uplink transmission (for example, data transmission corresponding to logical channel priority 1);

 reliability grade corresponding to uplink transmission (for example, high-reliability (or reliability grade 1) PUSCH transmission); and

25 latency grade corresponding to uplink transmission (for example, low-latency (or latency grade 1) PUSCH transmission).

[0066] The uplink transmission drop parameters corresponding to the target service information are used for conducting any one of the following:

[0067] Method 1: configuring for the terminal an uplink transmission drop number for one first specific service in uplink transmissions corresponding to the first specific service.

[0068] Method 2: configuring for the UE an uplink transmission drop number
5 for one second specific service in uplink transmissions corresponding to a plurality of first specific services.

[0069] Method 3: configuring an allowed number of dropped uplink transmissions of the first specific service within one period of time.

[0070] For the foregoing method 1, configuration information corresponding to
10 the uplink transmission drop parameter may include:

a number of uplink transmissions corresponding to the first specific service information, for example, the high-reliability PUSCH having uplink transmissions in 100 slots;

and an allowed number of dropped uplink transmissions for the first
15 specific service in "the number of uplink transmissions corresponding to the first specific service information", for example, in a case of "the high-reliability PUSCH having uplink transmissions in 100 slots", uplink transmissions of the high-reliability PUSCH in 1 slot are allowed to be dropped.

[0071] For the foregoing method 2, the configuration information
20 corresponding to the uplink transmission drop parameter may include:

a number of uplink transmissions corresponding to a plurality of first specific service information (for example, high-reliability and common-reliability PUSCHs having uplink transmissions in 100 slots); and

an allowed number of dropped uplink transmissions for one second
25 specific service information in the "number of uplink transmissions corresponding to the plurality of first specific service information". For example, in a case of "high-reliability and common-reliability PUSCHs having uplink transmissions in 100 slots", uplink transmissions of the high-reliability PUSCH in 1 slot are allowed to be dropped.

[0072] For the foregoing method 3, the configuration information corresponding to the uplink transmission drop parameter may include:

duration, for example, 100 ms, 100 consecutive uplink slots, or 100 slots (including uplink and downlink slots); and

- 5 an allowed number of dropped uplink transmissions for the first specific service within the duration, for example, uplink transmissions of the high-reliability PUSCH in 1 slot are allowed to be dropped out of 100 consecutive uplink slots.

[0073] Step 2: The terminal may drop uplink transmissions for the first specific service within a configured allowed range according to the configuration of step 1.

- 10 For example, in a case that a network device configures that uplink transmissions of the high-reliability PUSCH in 2 slots are allowed to be dropped out of "uplink transmissions of the high-reliability PUSCH in 100 slots", then, the terminal may select to drop uplink transmissions of the high-reliability PUSCH in 2 or fewer slots.

- 15 **[0074]** Further, the network device may configure or the protocol may specify a rule such that, when one service type in one uplink transmission includes a plurality of pieces of service information, service information under the service type of the uplink transmission may be determined according to the following rules:

- in a case that "uplink transmission priority" of the uplink transmission
20 includes "priority" information of a plurality of services, using low "priority" information or high "priority" information as the service information of the uplink transmission, for example, using priority 2 (low "priority" information) or priority 1 (high "priority" information) if PUSCH includes data of the priority 1 and priority 2;

- in a case that "logical channel index" of the uplink transmission includes
25 "logical channel index" information of a plurality of services, using low "logical channel index" information or high "logical channel index" information as the service information of the uplink transmission, for example, using logical channel index 1 or logical channel index 2 if PUSCH includes data of logical channel index 1 and logical channel index 2;

in a case that "logical channel priority" of the uplink transmission includes "logical channel priority" information of a plurality of services, using low "logical channel priority" information or high "logical channel priority" information as the service information of the uplink transmission, for example, using logical
5 channel priority 2 (low "logical channel priority" information) or logical channel priority 1 (high "logical channel priority" information) if PUSCH includes data of logical channel priority 1 and logical channel priority 2;

in a case that "reliability grade" of the uplink transmission includes "reliability grade" information of a plurality of services, using low "reliability grade"
10 information or high "reliability grade" information as the service information of the uplink transmission, for example, using reliability grade 2 (low "reliability grade" information) or reliability grade 1 (high "reliability grade" information) if PUSCH includes data of reliability grade 1 and reliability grade 2; and

in a case that "latency grade" of the uplink transmission includes "latency
15 grade" information of a plurality of services, using low "latency grade" information or high "latency grade" information as the service information of the uplink transmission, for example, using latency grade 2 (low "latency grade" information) or latency grade 1 (high "latency grade" information) if PUSCH includes data of latency grade 1 and latency grade 2.

20 **[0075]** Referring to FIG. 3, FIG. 3 is a flowchart of an uplink transmission drop configuration method according to an embodiment of this disclosure. The method is applied to a network device. As shown in FIG. 3, the method includes the following steps:

[0076] Step 301. Transmit configuration information, where the configuration
25 information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

[0077] Optionally, the target service information is in one-to-one correspondence to the uplink transmission drop parameters.

[0078] Optionally, the uplink transmission drop parameter is used to indicate any one of the following:

an uplink transmission drop number or an uplink transmission drop rate for first service information in uplink transmissions corresponding to the first service information;

an uplink transmission drop number or an uplink transmission drop rate for second service information in uplink transmissions corresponding to N pieces of first service information, where N is an integer greater than 1 and the second service information is one of the N pieces of first service information;

an uplink transmission drop number for the first service information or the second service information within a preset period; and

an uplink transmission drop rate for the first service information or the second service information within a preset period; where

the first service information is service information contained in the target service information.

[0079] Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for first service information in uplink transmissions corresponding to the first service information, the uplink transmission drop parameter includes a number of first uplink transmissions corresponding to the first service information and an allowed number of drops in the number of first uplink transmissions.

[0080] Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for second service information in uplink transmissions corresponding to N pieces of first service information, the uplink transmission drop parameter includes a number of second uplink transmissions and an allowed number of drops for the second service information in the number of second uplink transmissions, where the number of second uplink transmissions is a sum of numbers of uplink transmissions corresponding to the N pieces of first service information.

[0081] Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for the first service information or the second service information within a preset period, the uplink transmission drop parameter includes duration of the preset period and an allowed number of dropped
5 third uplink transmissions for the first service information or the second service information within the preset period.

[0082] Optionally, the target service information includes service information corresponding to at least one of the following service types:

channel type;
10 uplink transmission priority;
logical channel index;
logical channel priority;
reliability grade; and
latency grade.

15 **[0083]** Optionally, in a case that there are at least two pieces of third service information under one service type of one target uplink transmission, fourth service information of the target uplink transmission is determined according to a configuration by a network device or a protocol specification, where the fourth service information is one of the at least two pieces of third service information.

20 **[0084]** Optionally, in a case that the service type corresponding to the third service information is uplink transmission priority or logical channel priority, the fourth service information is first priority information, where a priority corresponding to the first priority information is higher or lower than a priority corresponding to the second priority information, the first priority information is
25 one of the at least two third service information, and the second priority information is priority information corresponding to service information other than the fourth service information in the at least two pieces of third service information; and/or

in a case that the service type corresponding to the third service information is logical channel index, the fourth service information is first logical
30 channel index information, where a logical channel index corresponding to the first

logical channel index information is greater or less than a logical channel index corresponding to second logical channel index information, the first logical channel index information is one of the at least two pieces of third service information, and the second logical channel index information is logical channel index information corresponding to service information other than the fourth service information in the at least third service information; and/or

in a case that the service type corresponding to the third service information is reliability grade or latency grade, the fourth service information is first grade information, where a grade corresponding to the first grade information is higher or lower than a grade corresponding to second grade information, the first grade information is one of the at least two pieces of third service information, and the second grade information is grade information corresponding to service information other than the fourth service information in the at least third service information.

[0085] It should be noted that this embodiment is an embodiment of a network device corresponding to the embodiment shown in FIG. 2, and for specific implementations of this embodiment, reference may be made to the relevant descriptions about the embodiment shown in FIG. 2, and the same beneficial effect is achieved. To avoid repetition, details are not described herein again.

[0086] Referring to FIG. 4, FIG. 4 is a structural diagram of a terminal according to an embodiment of this disclosure. As shown in FIG. 4, the terminal 400 includes:

a receiving module 401, configured to receive configuration information transmitted by a network device, where the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information; and

a first transmitting module 402, configured to drop uplink transmissions based on the uplink transmission drop parameters.

[0087] Optionally, the target service information is in one-to-one correspondence to the uplink transmission drop parameters.

[0088] Optionally, the uplink transmission drop parameter is used to indicate any one of the following:

an uplink transmission drop number or an uplink transmission drop rate for first service information in uplink transmissions corresponding to the first service information;

an uplink transmission drop number or an uplink transmission drop rate for second service information in uplink transmissions corresponding to N pieces of first service information, where N is an integer greater than 1 and the second service information is one of the N pieces of first service information;

an uplink transmission drop number for the first service information or the second service information within a preset period; and

an uplink transmission drop rate for the first service information or the second service information within a preset period; where

the first service information is service information contained in the target service information.

[0089] Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for first service information in uplink transmissions corresponding to the first service information, the uplink transmission drop parameter includes a number of first uplink transmissions corresponding to the first service information and an allowed number of drops in the number of first uplink transmissions.

[0090] Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for second service information in uplink transmissions corresponding to N pieces of first service information, the uplink transmission drop parameter includes a number of second uplink transmissions and an allowed number of drops for the second service information in the number of second uplink transmissions, where the number of second uplink transmissions is a sum of numbers of uplink transmissions corresponding to the N pieces of first service information.

[0091] Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for the first service information or the second service information within a preset period, the uplink transmission drop parameter includes duration of the preset period and an allowed number of dropped
5 third uplink transmissions for the first service information or the second service information within the preset period.

[0092] Optionally, the target service information includes service information corresponding to at least one of the following service types:

channel type;
10 uplink transmission priority;
logical channel index;
logical channel priority;
reliability grade; and
latency grade.

15 **[0093]** Optionally, in a case that there are at least two pieces of third service information under one service type of one target uplink transmission, fourth service information of the target uplink transmission is determined according to a configuration by a network device or a protocol specification, where the fourth service information is one of the at least two pieces of third service information.

20 **[0094]** Optionally, in a case that the service type corresponding to the third service information is uplink transmission priority or logical channel priority, the fourth service information is first priority information, where a priority corresponding to the first priority information is higher or lower than a priority corresponding to the second priority information, the first priority information is
25 one of the at least two third service information, and the second priority information is priority information corresponding to service information other than the fourth service information in the at least two pieces of third service information; and/or

in a case that the service type corresponding to the third service information is logical channel index, the fourth service information is first logical
30 channel index information, where a logical channel index corresponding to the first

logical channel index information is greater or less than a logical channel index corresponding to second logical channel index information, the first logical channel index information is one of the at least two pieces of third service information, and the second logical channel index information is logical channel index information corresponding to service information other than the fourth service information in the at least third service information; and/or

in a case that the service type corresponding to the third service information is reliability grade or latency grade, the fourth service information is first grade information, where a grade corresponding to the first grade information is higher or lower than a grade corresponding to second grade information, the first grade information is one of the at least two pieces of third service information, and the second grade information is grade information corresponding to service information other than the fourth service information in the at least third service information.

[0095] The terminal provided by this embodiment of this disclosure can implement the processes implemented by the terminal in the method embodiment in FIG. 2. To avoid repetition, details are not described herein again.

[0096] Referring to FIG. 5, FIG. 5 is a structural diagram of a network device according to an embodiment of this disclosure. As shown in FIG. 5, the network device 500 includes:

a second transmitting module 501, configured to transmit configuration information, where the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

[0097] Optionally, the target service information is in one-to-one correspondence to the uplink transmission drop parameters.

[0098] Optionally, the uplink transmission drop parameter is used to indicate any one of the following:

an uplink transmission drop number or an uplink transmission drop rate for first service information in uplink transmissions corresponding to the first service information;

an uplink transmission drop number or an uplink transmission drop rate
5 for second service information in uplink transmissions corresponding to N pieces of first service information, where N is an integer greater than 1 and the second service information is one of the N pieces of first service information;

an uplink transmission drop number for the first service information or the second service information within a preset period; and

10 an uplink transmission drop rate for the first service information or the second service information within a preset period; where

the first service information is service information contained in the target service information.

[0099] Optionally, in a case that the uplink transmission drop parameter is used
15 to indicate an uplink transmission drop number for first service information in uplink transmissions corresponding to the first service information, the uplink transmission drop parameter includes a number of first uplink transmissions corresponding to the first service information and an allowed number of drops in the number of first uplink transmissions.

20 **[00100]** Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for second service information in uplink transmissions corresponding to N pieces of first service information, the uplink transmission drop parameter includes a number of second uplink transmissions and an allowed number of drops for the second service information in
25 the number of second uplink transmissions, where the number of second uplink transmissions is a sum of numbers of uplink transmissions corresponding to the N pieces of first service information.

[00101] Optionally, in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for the first service information or
30 the second service information within a preset period, the uplink transmission drop

parameter includes duration of the preset period and an allowed number of dropped third uplink transmissions for the first service information or the second service information within the preset period.

5 **[00102]** Optionally, the target service information includes at least one of the following:

 channel type;
 uplink transmission priority;
 logical channel index;
 logical channel priority;
10 reliability grade; and
 latency grade.

[00103] Optionally, in a case that there are at least two pieces of third service information under one service type of one target uplink transmission, fourth service information of the target uplink transmission is determined according to a
15 configuration by a network device or a protocol specification, where the fourth service information is one of the at least two pieces of third service information.

[00104] Optionally, in a case that the service type corresponding to the third service information is uplink transmission priority or logical channel priority, the fourth service information is first priority information, where a priority
20 corresponding to the first priority information is higher or lower than a priority corresponding to the second priority information, the first priority information is one of the at least two third service information, and the second priority information is priority information corresponding to service information other than the fourth service information in the at least two pieces of third service information; and/or

25 in a case that the service type corresponding to the third service information is logical channel index, the fourth service information is first logical channel index information, where a logical channel index corresponding to the first logical channel index information is greater or less than a logical channel index corresponding to second logical channel index information, the first logical channel
30 index information is one of the at least two pieces of third service information, and

the second logical channel index information is logical channel index information corresponding to service information other than the fourth service information in the at least third service information; and/or

in a case that the service type corresponding to the third service
5 information is reliability grade or latency grade, the fourth service information is first grade information, where a grade corresponding to the first grade information is higher or lower than a grade corresponding to second grade information, the first grade information is one of the at least two pieces of third service information, and the second grade information is grade information corresponding to service
10 information other than the fourth service information in the at least third service information.

[00105] The network device provided in this embodiment of this disclosure can implement the processes implemented by the network device in the method embodiment in FIG. 3, reducing the resource overheads for the configuration. To
15 avoid repetition, details are not described herein again.

[00106] FIG. 6 is a schematic diagram of a hardware structure of a terminal for implementing the embodiments of this disclosure.

[00107] The terminal 600 includes but is not limited to components such as a radio frequency unit 601, a network module 602, an audio output unit 603, an input
20 unit 604, a sensor 605, a display unit 606, a user input unit 607, an interface unit 608, a memory 609, a processor 610, and a power supply 611. A person skilled in the art may understand that the structure of the terminal shown in FIG. 6 does not constitute a limitation on the terminal. The terminal may include more or fewer components than those shown in the figure, or some components are combined, or
25 component arrangements are different. In this embodiment of this disclosure, the terminal includes but is not limited to a mobile phone, a tablet computer, a notebook computer, a palmtop computer, an in-vehicle terminal, a wearable device, a pedometer, or the like.

a radio frequency unit 601, configured to receive configuration
30 information transmitted by a network device, where the configuration information is

used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information; and

[00108] The radio frequency unit 601 is further configured to drop uplink transmissions based on the uplink transmission drop parameters.

- 5 **[00109]** In this embodiment of this disclosure, the target service information for uplink transmissions and the uplink transmission drop parameters corresponding to the target service information are configured, and uplink transmissions are dropped based on the uplink transmission drop parameters. As such, uplink transmissions can be dropped for specified target service information. Therefore, uplink
10 transmission dropping is more targeted in uplink transmission drop procedures.

[00110] It should be understood that, in this embodiment of this disclosure, the radio frequency unit 601 may be configured to transmit or receive a signal in an information transmitting/receiving or call process. Specifically, the radio frequency unit 601 receives downlink data from a base station and transmits the downlink data
15 to the processor 610 for processing; and transmits uplink data to the base station. Generally, the radio frequency unit 601 includes but is not limited to an antenna, at least one amplifier, a transceiver, a coupler, a low noise amplifier, a duplexer, and the like. In addition, the radio frequency unit 601 may further communicate with a network and other devices through a wireless communications system.

- 20 **[00111]** The terminal provides wireless broadband internet access for a user by using the network module 602, for example, helping the user send and receive e-mails, browse web pages, and access streaming media.

- [00112]** The audio output unit 603 may convert audio data received by the radio frequency unit 601 or the network module 602 or stored in the memory 609 into an
25 audio signal and output the audio signal as a sound. In addition, the audio output unit 603 may further provide audio output (for example, a call signal reception tone or a message reception tone) that is related to a specific function performed by the terminal 600. The audio output unit 603 includes a speaker, a buzzer, a telephone receiver, and the like.

[00113] The input unit 604 is configured to receive an audio or video signal. The input unit 604 may include a graphics processing unit (Graphics Processing Unit, GPU) 6041 and a microphone 6042, and the graphics processing unit 6041 processes image data of a still picture or a video obtained by an image capture apparatus (for example, a camera) in an image capture mode or a video capture mode. A processed image frame may be displayed on the display unit 606. An image frame processed by the graphics processing unit 6041 may be stored in the memory 609 (or another storage medium) or sent by the radio frequency unit 601 or the network module 602. The microphone 6042 can receive a sound and can process the sound into audio data. The processed audio data can be converted, for outputting, into a format that can be sent to a mobile communication base station through the radio frequency unit 601 in a telephone call mode.

[00114] The terminal 600 further includes at least one sensor 605, for example, an optical sensor, a motion sensor, and other sensors. Specifically, the optical sensor includes an ambient light sensor and a proximity sensor. The ambient light sensor may adjust brightness of a display panel 6061 based on intensity of ambient light. When the terminal 600 moves near an ear, the proximity sensor may disable the display panel 6061 and/or backlight. As a type of motion sensor, an accelerometer sensor can detect magnitudes of accelerations in all directions (usually three axes), can detect a magnitude and a direction of gravity when being static, and can be applied to terminal posture recognition (such as screen switching between portrait and landscape, related games, and magnetometer posture calibration), functions related to vibration recognition (such as pedometer and tapping), and the like. The sensor 605 may also include a fingerprint sensor, a pressure sensor, an iris sensor, a molecular sensor, a gyroscope, a barometer, a hygrometer, a thermometer, an infrared sensor, and the like. Details are not described herein.

[00115] The display unit 606 may be configured to display information input by the user or information provided for the user. The display unit 606 may include the display panel 6061. The display panel 6061 may be configured in a form of a liquid

crystal display (Liquid Crystal Display, LCD), an organic light-emitting diode (Organic Light-Emitting Diode, OLED), or the like.

[00116] The user input unit 607 may be used to receive input digit or character information, and generate key signal input that is related to user setting and
5 function control of the terminal. Specifically, the user input unit 607 includes a touch panel 6071 and other input devices 6072. The touch panel 6071, also referred to as a touchscreen, may capture a touch operation performed by a user on or near the touch panel (for example, an operation performed by the user on the touch panel 6071 or near the touch panel 6071 by using any appropriate object or accessory
10 such as a finger or a stylus). The touch panel 6071 may include two parts: a touch detection apparatus and a touch controller. The touch detection apparatus detects a touch direction of the user, detects a signal brought by a touch operation, and transmits the signal to the touch controller. The touch controller receives touch information from the touch detection apparatus, converts the touch information to
15 point coordinates, and sends the point coordinates to the processor 610, and receives and executes a command sent by the processor 610. In addition, the touch panel 6071 may be implemented in a plurality of forms, for example, as a resistive, capacitive, infrared, or surface acoustic wave touch panel. The user input unit 607 may further include other input devices 6072 in addition to the touch panel 6071.
20 Specifically, the other input devices 6072 may include but are not limited to a physical keyboard, a function key (such as a volume control key or a power on/off key), a trackball, a mouse, a joystick, and the like. Details are not described herein.

[00117] Further, the touch panel 6071 may cover the display panel 6061. After detecting a touch operation on or near the touch panel 6071, the touch panel 6071
25 transmits the touch operation to the processor 610 for determining a type of the touch event. Then the processor 610 provides corresponding visual output on the display panel 6061 based on the type of the touch event. Although the touch panel 6071 and the display panel 6061 are used as two separate components to implement input and output functions of the terminal in FIG. 6, the touch panel 6071 and the

display panel 6061 may be integrated to implement the input and output functions of the terminal in some embodiments. This is not specifically limited herein.

[00118] The interface unit 608 is an interface for connecting an external apparatus to the terminal 600. For example, the external apparatus may include a
5 wired or wireless headphone port, an external power supply (or battery charger) port, a wired or wireless data port, a memory card port, a port for connecting an apparatus provided with an identification module, an audio input/output (I/O) port, a video I/O port, or an earphone port. The interface unit 608 may be used to receive input (for example, data information or electric power) from the external apparatus,
10 and transmit the received input to one or more elements in the terminal 600; or may be used to transmit data between the terminal 600 and the external apparatus.

[00119] The memory 609 may be used to store software programs and various data. The memory 609 may mainly include a program storage area and a data storage area. The program storage area may store an operating system, an
15 application program required for at least one function (such as a sound play function and an image play function), and the like. The data storage area may store data (such as audio data and a phone book) created based on use of a mobile phone, and the like. In addition, the memory 609 may include a high-speed random access memory, and may further include a non-volatile memory, for example, at least one
20 magnetic disk storage device, a flash memory device, or other volatile solid-state storage devices.

[00120] The processor 610 is a control center of the terminal, and is connected to all components of the terminal by using various interfaces and lines. By running or executing software programs and/or modules stored in the memory 609 and
25 invoking data stored in the memory 609, the processor 610 executes various functions of the terminal and processes data, so as to perform overall monitoring on the terminal. The processor 610 may include one or more processing units. Optionally, the processor 610 may integrate an application processor and a modem processor. The application processor mainly processes an operating system, a user
30 interface, an application program, and the like. The modem processor mainly

processes wireless communication. It may be understood that the modem processor may alternatively not be integrated into the processor 610.

[00121] The terminal 600 may further include a power supply 611 (for example, a battery) that supplies power to the components. Optionally, the power supply 611
5 may be logically connected to the processor 610 by using a power management system, so as to implement functions such as charging management, discharging management, and power consumption management by using the power management system.

[00122] In addition, the terminal 600 includes some functional modules that are
10 not shown. Details are not described herein.

[00123] Optionally, an embodiment of this disclosure further provides a terminal, including a processor 610, a memory 609, and a computer program stored in the memory 609 and capable of running on the processor 610. When the computer program is executed by the processor 610, the processes of the uplink transmission
15 drop method embodiments are implemented, with the same technical effects achieved. To avoid repetition, details are not described herein again.

[00124] Referring to FIG. 7, FIG. 7 is a structural diagram of another network device according to an embodiment of this disclosure. As shown in FIG. 7, the network device 700 includes a processor 701, a transceiver 702, a memory 703, and
20 a bus interface.

[00125] The transceiver 702 is configured to transmit configuration information, where the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

25 [00126] In this embodiment of this disclosure, the target service information for uplink transmissions and the uplink transmission drop parameters corresponding to the target service information are configured, and uplink transmissions are dropped based on the uplink transmission drop parameters. As such, uplink transmissions can be dropped for specified target service information. Therefore, uplink
30 transmission dropping is more targeted in uplink transmission drop procedures.

[00127] In FIG. 7, a bus architecture may include any quantity of interconnected buses and bridges, specifically for interconnecting various circuits of one or more processors represented by the processor 701 and a memory represented by the memory 703. The bus architecture may further interconnect various other circuits
5 such as a peripheral device, a voltage regulator, and a power management circuit. These are all common sense in the art, and therefore are not further described in this specification. The bus interface provides interfaces. The transceiver 702 may be a plurality of components, including a transmitter and a receiver, and provides units for communicating with a variety of other apparatuses on a transmission medium.
10 For different user equipment, the user interface 704 may also be an interface capable of externally or internally connecting a required device, and the connected device includes but is not limited to a keypad, a display, a speaker, a microphone, a joystick, and the like.

[00128] The processor 701 is responsible for management of the bus architecture
15 and general processing, and the memory 703 may store data for use by the processor 701 when the processor 701 performs an operation.

[00129] Optionally, an embodiment of this disclosure further provides a network device, including a processor 701, a memory 703, and a computer program stored in the memory 703 and capable of running on the processor 701. When the
20 computer program is executed by the processor 701, the processes of the uplink transmission drop configuration method embodiments are implemented, with the same technical effects achieved. To avoid repetition, details are not described herein again.

[00130] An embodiment of this disclosure further provides a computer-readable
25 storage medium. The computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, the processes of the uplink transmission drop configuration method on a network device side provided in the embodiments of this disclosure are implemented, or when the computer program is executed by a processor, the processes of the uplink
30 transmission drop method on a terminal side provided in the embodiments of this

disclosure are implemented, with the same technical effect achieved. To avoid repetition, details are not described herein again. For example, the computer-readable storage medium is a read-only memory (Read-Only Memory, ROM), a random access memory (Random Access Memory, RAM), a magnetic disk, or an optical disc.

[00131] It should be noted that in this specification, the term "comprise", "include", or any other variant thereof is intended to cover a non-exclusive inclusion, so that a process, method, article, or apparatus that includes a list of elements not only includes those elements but also includes other elements that are not expressly listed, or further includes elements inherent to such process, method, article, or apparatus. In absence of more constraints, an element preceded by "includes a..." does not preclude the existence of other identical elements in the process, method, article, or apparatus that includes the element.

[00132] According to the description of the implementations, persons skilled in the art can clearly understand that the method in the foregoing embodiments may be implemented by software in addition to a necessary universal hardware platform or by hardware only. In most cases, the former is a more preferred implementation. Based on such an understanding, the technical solutions of this disclosure essentially or a part thereof that contributes to related technologies may be embodied in a form of a software product. The computer software product is stored in a storage medium (for example, a ROM/RAM, a magnetic disk, or an optical disc), and includes several instructions for instructing a terminal (which may be a mobile phone, a computer, a server, an air conditioner, a base station, or the like) to perform the methods described in the embodiments of this disclosure.

[00133] The embodiments of this disclosure are described above with reference to the accompanying drawings, but this disclosure is not limited to these embodiments. These embodiments are only illustrative rather than restrictive. Inspired by this disclosure, a person of ordinary skill in the art can still derive a plurality of variations without departing from the essence of this disclosure and the

protection scope of the claims. All these variations shall fall within the protection of this disclosure.

CLAIMS

What is claimed is:

1. An uplink transmission drop method, applied to a terminal and comprising:
receiving configuration information transmitted by a network device, wherein
5 the configuration information is used for configuring target service information for
uplink transmissions and uplink transmission drop parameters corresponding to the
target service information; and

dropping uplink transmissions based on the uplink transmission drop
parameters.

10 2. The method according to claim 1, wherein the target service information is in
one-to-one correspondence to the uplink transmission drop parameters.

3. The method according to claim 1, wherein the uplink transmission drop
parameter is used to indicate any one of the following:

an uplink transmission drop number or an uplink transmission drop rate for first
15 service information in uplink transmissions corresponding to the first service
information;

an uplink transmission drop number or an uplink transmission drop rate for
second service information in uplink transmissions corresponding to N pieces of first
service information, wherein N is an integer greater than 1 and the second service
20 information is one of the N pieces of first service information;

an uplink transmission drop number for the first service information or the
second service information within a preset period; and

an uplink transmission drop rate for the first service information or the second
service information within a preset period; wherein

25 the first service information is service information contained in the target
service information.

4. The method according to claim 3, wherein in a case that the uplink
transmission drop parameter is used to indicate an uplink transmission drop number
for first service information in uplink transmissions corresponding to the first service

information, the uplink transmission drop parameter comprises a number of first uplink transmissions corresponding to the first service information and an allowed number of drops in the number of first uplink transmissions.

5 5. The method according to claim 3, wherein in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for second service information in uplink transmissions corresponding to N pieces of first service information, the uplink transmission drop parameter comprises a number of second uplink transmissions and an allowed number of drops for the second service information in the number of second uplink transmissions, wherein
10 the number of second uplink transmissions is a sum of numbers of uplink transmissions corresponding to the N pieces of first service information.

15 6. The method according to claim 3, wherein in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for the first service information or the second service information within a preset period, the uplink transmission drop parameter comprises duration of the preset period and an allowed number of dropped third uplink transmissions for the first service information or the second service information within the preset period.

20 7. The method according to claim 1, wherein the target service information comprises service information corresponding to at least one of the following service types:

channel type;
uplink transmission priority;
logical channel index;
logical channel priority;
25 reliability grade; and
latency grade.

30 8. The method according to claim 7, wherein in a case that there are at least two pieces of third service information under one service type of one target uplink transmission, determining fourth service information of the target uplink transmission according to a configuration by a network device or a protocol

specification, wherein the fourth service information is one of the at least two pieces of third service information.

9. The method according to claim 8, wherein in a case that the service type corresponding to the third service information is uplink transmission priority or logical channel priority, the fourth service information is first priority information, wherein a priority corresponding to the first priority information is higher or lower than a priority corresponding to second priority information, the first priority information is one of the at least two pieces of third service information, and the second priority information is priority information corresponding to service information other than the fourth service information in the at least two pieces of third service information; and/or

in a case that the service type corresponding to the third service information is logical channel index, the fourth service information is first logical channel index information, wherein a logical channel index corresponding to the first logical channel index information is greater or less than a logical channel index corresponding to second logical channel index information, the first logical channel index information is one of the at least two pieces of third service information, and the second logical channel index information is logical channel index information corresponding to service information other than the fourth service information in the at least third service information; and/or

in a case that the service type corresponding to the third service information is reliability grade or latency grade, the fourth service information is first grade information, wherein a grade corresponding to the first grade information is higher or lower than a grade corresponding to second grade information, the first grade information is one of the at least two pieces of third service information, and the second grade information is grade information corresponding to service information other than the fourth service information in the at least third service information.

10. An uplink transmission drop configuration method, applied to a network device, and comprising:

transmitting configuration information, wherein the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

11. The method according to claim 10, wherein the target service information is
5 in one-to-one correspondence to the uplink transmission drop parameters.

12. The method according to claim 10, wherein the uplink transmission drop parameter is used to indicate any one of the following:

an uplink transmission drop number or an uplink transmission drop rate for first service information in uplink transmissions corresponding to the first service
10 information;

an uplink transmission drop number or an uplink transmission drop rate for second service information in uplink transmissions corresponding to N pieces of first service information, wherein N is an integer greater than 1 and the second service information is one of the N pieces of first service information;

15 an uplink transmission drop number for the first service information or the second service information within a preset period; and

an uplink transmission drop rate for the first service information or the second service information within a preset period; wherein

the first service information is service information contained in the target
20 service information.

13. The method according to claim 12, wherein in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for first service information in uplink transmissions corresponding to the first service information, the uplink transmission drop parameter comprises a number of first
25 uplink transmissions corresponding to the first service information and an allowed number of drops in the number of first uplink transmissions.

14. The method according to claim 12, wherein in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for second service information in uplink transmissions corresponding to N pieces of
30 first service information, the uplink transmission drop parameter comprises a

number of second uplink transmissions and an allowed number of drops for the second service information in the number of second uplink transmissions, wherein the number of second uplink transmissions is a sum of numbers of uplink transmissions corresponding to the N pieces of first service information.

5 15. The method according to claim 12, wherein in a case that the uplink transmission drop parameter is used to indicate an uplink transmission drop number for the first service information or the second service information within a preset period, the uplink transmission drop parameter comprises duration of the preset period and an allowed number of dropped third uplink transmissions for the first
10 service information or the second service information within the preset period.

16. The method according to claim 10, wherein the target service information comprises service information corresponding to at least one of the following service types:

channel type;

15 uplink transmission priority;

logical channel index;

logical channel priority;

reliability grade; and

latency grade.

20 17. The method according to claim 16, wherein in a case that there are at least two pieces of third service information under one service type of one target uplink transmission, fourth service information of the target uplink transmission is determined according to a configuration by a network device or a protocol specification, wherein the fourth service information is one of the at least two pieces
25 of third service information.

18. The method according to claim 17, wherein

in a case that the service type corresponding to the third service information is uplink transmission priority or logical channel priority, the fourth service information is first priority information, wherein a priority corresponding to the first
30 priority information is higher or lower than a priority corresponding to the second

priority information, the first priority information is one of the at least two third service information, and the second priority information is priority information corresponding to service information other than the fourth service information in the at least two pieces of third service information; and/or

5 in a case that the service type corresponding to the third service information is logical channel index, the fourth service information is first logical channel index information, wherein a logical channel index corresponding to the first logical channel index information is greater or less than a logical channel index corresponding to second logical channel index information, the first logical channel
10 index information is one of the at least two pieces of third service information, and the second logical channel index information is logical channel index information corresponding to service information other than the fourth service information in the at least third service information; and/or

 in a case that the service type corresponding to the third service information is
15 reliability grade or latency grade, the fourth service information is first grade information, wherein a grade corresponding to the first grade information is higher or lower than a grade corresponding to second grade information, the first grade information is one of the at least two pieces of third service information, and the second grade information is grade information corresponding to service information
20 other than the fourth service information in the at least third service information.

19. A terminal, comprising:

 a receiving module, configured to receive configuration information transmitted by a network device, wherein the configuration information is used for configuring target service information for uplink transmissions and uplink transmission drop
25 parameters corresponding to the target service information; and

 a first transmitting module, configured to drop uplink transmissions based on the uplink transmission drop parameters.

20. A network device, comprising:

 A second transmitting module, configured to transmit configuration information,
30 wherein the configuration information is used for configuring target service

information for uplink transmissions and uplink transmission drop parameters corresponding to the target service information.

21. A terminal, comprising a memory, a processor, and a program stored in the memory and capable of running on the processor, wherein when the program is
5 executed by the processor, the steps of the uplink transmission drop method according to any one of claims 1 to 9 are implemented.

22. A network device, comprising a memory, a processor, and a program stored in the memory and capable of running on the processor, wherein when the program is executed by the processor, the steps of the uplink transmission drop configuration
10 method according to any one of claims 10 to 18 are implemented.

23. 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 uplink transmission drop method according to any one of claims 1 to 9 are implemented; or when the computer program is
15 executed by a processor, the steps of the uplink transmission drop configuration method according to any one of claims 10 to 18 are implemented.