CLAIMS

1. A method for transmitting feedback information, applied to a terminal, wherein the method comprises:

receiving feedback time indication information, wherein the terminal is configured with at least two downlink semi-persistent schedulings DL SPSs configuration resource, the feedback time indication information is used to indicate at least one first candidate time-domain feedback resource, the first candidate time-domain feedback resource is a candidate time-domain resource for transmission of first feedback information, the first feedback information is feedback information corresponding to a downlink data channel of a first target DL SPS, and the first target DL SPS is at least one of the at least two DL SPSs;

determining a target time-domain resource based on the feedback time indication information; and

transmitting the first feedback information on the target time-domain resource;

wherein the feedback time indication information comprises:

an offset value, wherein the offset value comprises an offset value of the first candidate time-domain feedback resource relative to a first reference point;

wherein the first reference point comprises one of the following:

a receiving occasion of DCI for activating a second target DL SPS;

a receiving occasion of a first downlink data channel of the second target DL SPS; and

a feedback occasion of feedback information corresponding to a first downlink data channel of the second target DL SPS;

wherein the second target DL SPS is a DL SPS with a smallest or largest identifier in the first target DL SPS.

2. The method according to claim 1, wherein the first target DL SPS comprises at least one of the following:

all DL SPSs configured for the terminal;

a DL SPS with a specified priority;

a DL SPS with a specified identifier; and

an active DL SPS.

3. The method according to claim 2, wherein the specified priority comprises a highest priority and/or a lowest priority; or the specified priority is a set of priorities, and the set of priorities comprises a plurality of priorities.

4. The method according to claim 2, wherein the feedback time indication information further comprises at least one of the following:

a feedback time window, wherein the feedback time window comprises the at least one first candidate time-domain feedback resource;

a start position of the first candidate time-domain feedback resource;

a length of the first candidate time-domain feedback resource;

an end position of the first candidate time-domain feedback resource;

a quantity of the first candidate time-domain feedback resources; and

a number or a set of numbers of the first candidate time-domain feedback resource.

5. The method according to claim 4, wherein the feedback time window comprises at least one time unit, and each time unit comprises at least one of the first candidate time-domain feedback resources, wherein the time unit is slot, sub-slot, or subframe.

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

skipping transmitting the first feedback information on the target time-domain resource in a case that the target time-domain resource collides with a time-domain resource for downlink transmission.

7. The method according to any one of claims 1 to 5, wherein the first feedback information is feedback information for some or all of HARQ processes for the first target DL SPS.

8. The method according to any one of claims 1 to 5, wherein the receiving feedback time indication information comprises receiving the feedback time indication information sent in one of the following manners:

sending the feedback time indication information to the terminal by radio resource control RRC;

sending the feedback time indication information to the terminal by group common DCI; and

sending the feedback time indication information to the terminal by DCI specific to the terminal.

9. An apparatus for transmitting feedback information, applied to a terminal, wherein the apparatus comprises:

a receiving module, configured to receive feedback time indication information, wherein the terminal is configured with at least two DL SPSs configuration resource, the feedback time indication information is used to indicate at least one first candidate time-domain feedback resource, the first candidate time-domain feedback resource is a candidate time-domain resource for transmission of first feedback information, the first feedback information is feedback information corresponding to a

downlink data channel of a first target DL SPS, and the first target DL SPS is at least one of the at least two DL SPSs;

a determining module, configured to determine a target time-domain resource based on the feedback time indication information; and

a transmission module, configured to transmit the first feedback information on the target time-domain resource;

wherein the feedback time indication information comprises:

an offset value, wherein the offset value comprises an offset value of the first candidate time-domain feedback resource relative to a first reference point;

wherein the first reference point comprises one of the following:

a receiving occasion of DCI for activating a second target DL SPS;

a receiving occasion of a first downlink data channel of the second target DL SPS; and

a feedback occasion of feedback information corresponding to a first downlink data channel of the second target DL SPS;

wherein the second target DL SPS is a DL SPS with a smallest or largest identifier in the first target DL SPS.

10. The apparatus according to claim 9, wherein the first target DL SPS comprises at least one of the following:

all DL SPSs configured for the terminal;

a DL SPS with a specified priority;

a DL SPS with a specified identifier; and

an active DL SPS.

11. The apparatus according to claim 10, wherein the specified priority comprises a highest priority and/or a lowest priority; or the specified priority is a set of priorities, and the set of priorities comprises a plurality of priorities.

12. The apparatus according to claim 9, wherein the feedback time indication information further comprises at least one of the following:

a feedback time window, wherein the feedback time window comprises the at least one first candidate time-domain feedback resource;

a start position of the first candidate time-domain feedback resource;

a length of the first candidate time-domain feedback resource;

an end position of the first candidate time-domain feedback resource;

a quantity of the first candidate time-domain feedback resources; and

a number or a set of numbers of the first candidate time-domain feedback resource;

wherein the feedback time window comprises at least one time unit, and each time unit comprises at least one of the first candidate time-domain feedback resources, wherein the time unit is slot, sub-slot, or subframe.

13. The apparatus according to any one of claims 9 to 12, wherein the transmission module is further configured to skip transmitting the first feedback information on the target time-domain resource in a case that the target time-domain resource collides with a time-domain resource for downlink transmission.

14. The apparatus according to any one of claims 9 to 12, wherein the first feedback information is feedback information for some or all of HARQ processes for the first target DL SPS.

15. The apparatus according to any one of claims 9 to 12, wherein that the receiving module receives feedback time indication information comprises receiving the feedback time indication information sent in one of the following manners:

sending the feedback time indication information to the terminal by RRC;

sending the feedback time indication information to the terminal by group common DCI; and

sending the feedback time indication information to the terminal by DCI specific to the terminal.