

AMENDED CLAIMS

1. A transmission method, applied to a network device and comprising:
sending indication information, wherein the indication information comprises a first indication, the first indication is used to indicate bit information of one or more bits to be monitored by a terminal, and the one or more bits to be monitored is at least one bit of downlink control information (DCI) on a physical downlink control channel (PDCCH);
wherein the bit information of one or more bits to be monitored is one or more positions, in the DCI, of the one or more bits to be monitored.
2. The method according to claim 1, wherein the bit information further comprises the number of bits.
3. The method according to claim 1, wherein the indication information further comprises a second indication, and the second indication is used to indicate at least one of the following:
the number of bits of the DCI;
the number of cyclic redundancy check (CRC) bits;
a radio network temporary identifier (RNTI); and
a scrambling identifier (ID) for PDCCH coded bits.
4. The method according to claim 1, wherein the indication information further comprises a third indication, and the third indication is used to indicate at least one of the following:
a search space for the PDCCH;
the number of physical downlink control channel candidates (PDCCH candidates) or a subset thereof;
an aggregation level; and
a downlink control information format (DCI format).
5. The method according to any one of claims 1 to 4, wherein the indication information is transmitted by using at least one of system information, radio resource control (RRC) signaling, a medium access control-control element (MAC-CE), and the PDCCH.
6. The method according to any one of claims 1 to 4, wherein information transmitted on the PDCCH is used to indicate at least one of the following:
whether the terminal needs to perform PDCCH monitoring within a first discontinuous reception DRX on-duration, wherein the first DRX on-duration is a current DRX on-duration, or next M DRX on-durations after a current moment, and M is a positive integer;
the terminal to perform bandwidth part (BWP) switching;
the terminal to activate or deactivate an object, wherein the object is a cell group or a carrier group;

- the terminal to stop PDCCH monitoring in a preset time period;
- the terminal to switch between receive antennas;
- a slot structure for the terminal group;
- the terminal to trigger reporting of channel state information (CSI);
- the terminal to trigger sending of a sounding reference signal (SRS);
- the terminal to receive tracking reference signal (TRS);
- the terminal to receive channel state information reference signal (CSI-RS);
- the terminal to perform at least one of beam management (BM) measurement, radio link monitoring (RLM) measurement, and radio resource management (RRM) measurement;
- at least one of a total duration of a channel occupancy time (COT) in a new radio unlicensed frequency band (NR-U), a remaining duration, and a channel access priority to the terminal;
- a power control parameter for sending an uplink physical channel and/or physical signal by the terminal; and
- the terminal to activate different DRX configurations or search space configurations.

7. A transmission method, applied to a terminal and comprising:

receiving indication information from a network device, wherein the indication information comprises a first indication, the first indication is used to indicate bit information of one or more bits to be monitored by a terminal, and the one or more bits to be monitored is at least one bit of downlink control information (DCI) on a physical downlink control channel (PDCCH); and

monitoring the one or more bits to be monitored;

wherein the bit information of one or more bits to be monitored is one or more positions, in the DCI, of the one or more bits to be monitored.

8. The method according to claim 7, wherein the bit information further comprises the number of bits.

9. The method according to claim 7, wherein the indication information further comprises a second indication, and the second indication is used to indicate at least one of the following:

the number of bits of the DCI;

the number of cyclic redundancy check (CRC) bits;

a radio network temporary identifier (RNTI); and

a scrambling ID for PDCCH coded bits.

10. The method according to claim 7, wherein the indication information further comprises a third indication, and the third indication is used to indicate at least one of the following:

a search space for the PDCCH;

the number of physical downlink control channel candidates (PDCCH candidates) to be monitored or a subset thereof;

an aggregation level; and

a downlink control information format (DCI format).

11. The method according to claim 7, wherein that the first indication is used to indicate bit information of one or more bits to be monitored by a terminal comprises:

the first indication is used to indicate bit information of one or more bits to be monitored by one terminal; or

the first indication is used to indicate bit information of one or more bits to be monitored by all terminals in one terminal group.

12. The method according to claim 7, wherein a first bit sequence on the PDCCH is configured by a network side or predefined, and the first bit sequence comprises other bits than the one or more bits to be monitored among bits of the DCI.

13. The method according to any one of claims 7 to 12, wherein the indication information is transmitted by using at least one of system information, radio resource control (RRC) signaling, a medium access control-control element (MAC-CE), and the PDCCH.

14. The method according to any one of claims 7 to 12, wherein information transmitted on the PDCCH is used to indicate at least one of the following:

whether the terminal needs to perform PDCCH monitoring within a first discontinuous reception (DRX) on-duration, wherein the first DRX on-duration is a current DRX on-duration, or next M DRX on-durations after a current moment, and M is a positive integer;

the terminal to perform bandwidth part (BWP) switching;

the terminal to activate or deactivate an object, wherein the object is a cell group or a carrier group;

the terminal to stop PDCCH monitoring in a preset time period;

the terminal to switch between receive antennas;

a slot structure for the terminal;

the terminal to trigger reporting of channel state information (CSI);

the terminal to trigger sending of a sounding reference signal (SRS);

the terminal to receive a tracking reference signal (TRS);

the terminal to receive a channel state information reference signal (CSI-RS);

the terminal to perform at least one of beam management (BM) measurement, radio link monitoring (RLM) measurement, and radio resource management (RRM) measurement;

at least one of a total duration of a channel occupancy time (COT) in a new radio interface unlicensed frequency band (NR-U), a remaining duration, and a channel access priority to the terminal;

a power control parameter for sending an uplink physical channel and/or physical signal by the terminal; and

the terminal to activate different DRX configurations or search space configurations.

15. The method according to claim 14, wherein when the one or more bits to be monitored comprise at least two bits to be monitored, a bit combination of the one or more bits to be monitored indicates that the corresponding terminal is to perform a first operation, wherein the first operation is an operation corresponding to the information transmitted on the PDCCH, and bit combinations correspond to terminals on a one-to-one basis, or bit combinations correspond to terminal groups on a one-to-one basis.

16. A network device, comprising:

a sending module, configured to send indication information, wherein the indication information comprises a first indication, the first indication is used to indicate bit information of one or more bits to be monitored by a terminal, and the one or more bits to be monitored is at least one bit of downlink control information (DCI) on a physical downlink control channel (PDCCH) ;

wherein the bit information of one or more bits to be monitored is one or more positions, in the DCI, of the one or more bits to be monitored.

17. A terminal, comprising:

a receiving module, configured to receive indication information from a network device, wherein the indication information comprises a first indication, the first indication is used to indicate bit information of one or more bits to be monitored by a terminal, and the one or more bits to be monitored is at least one bit of downlink control information (DCI) on a physical downlink control channel (PDCCH); and

a monitoring module, configured to monitor the one or more bits to be monitored;

wherein the bit information of one or more bits to be monitored is one or more positions, in the DCI, of the one or more bits to be monitored.

18. 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 transmission method according to any one of claims 1 to 6 are implemented.

19. 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 executed by the

processor, the steps of the transmission method according to any one of claims 7 to 15 are implemented.

20. A computer-readable storage medium, wherein the computer-readable storage medium stores a program, and when the program is executed by a processor, the steps of the transmission method according to any one of claims 1 to 6 are implemented, or the steps of the transmission method according to any one of claims 7 to 15 are implemented.