CLAIMS

1. A method for communication processing, performed by a network device, comprising:

configuring at least two time domain parameters and at least two received beams for a user equipment (UE) to receive downlink control information (DCI);

sending the DCI to the UE via a physical downlink control channel (PDCCH) based on the at least two time domain parameters; and

configuring at least two search spaces for the UE, wherein different time domain parameters in the at least two time domain parameters correspond to different search spaces, and wherein configuration of the search space comprises configuration of following parameters: a PDCCH monitoring cycle, a PDCCH monitoring slot offset value and a within-slot monitoring-symbol position.

2. The method of claim 1, further comprising:

configuring a search space for the UE, wherein the at least two time domain parameters correspond to the search space.

3. The method of claim 2, wherein the at least two time domain parameters correspond to different symbols within a slot in the search space.

4. The method of claim 2, wherein the at least two time domain parameters correspond to symbols within different slots in the search space.

5. The method of claim 1, further comprising:

configuring a search space for the UE, wherein a first time domain parameter in the at least two time domain parameters corresponds to the search space; and

configuring a relative offset value of the search space for the UE, wherein the relative offset value of the search space is an offset value of a second time domain parameter in the at least two time domain parameters relative to the first time domain parameter, and the relative offset value of the search space comprises: one or more combinations of a relative offset value of a PDCCH monitoring cycle, a relative offset value of a PDCCH monitoring slot offset value, and a relative offset value of a within-slot monitoring-symbol position.

6. The method of claim 1, further comprising:

configuring a control resource set for the UE, wherein the at least two search spaces correspond to the control resource set.

7. The method of claim 6, further comprising:

configuring a control resource set identifier for the control resource set, wherein the control resource set identifier is configured to indicate that received beams corresponding to different search spaces in the control resource set are different.

8. The method of claim 6, wherein,

among configuration parameters of the at least two search spaces, at least one of a PDCCH monitoring cycle, a PDCCH monitoring slot offset or a within-slot monitoring-symbol position is different.

9. The method of claim 1, further comprising:

configuring at least two control resource sets for the UE, wherein different search spaces in the at least two search spaces correspond to different control resource sets in the at least two control resource sets.

10. The method of claim 9, wherein,

frequency domain resources of the at least two control resource sets are identical.

11. The method of claim 10, wherein time domain resources of the at least two control resource sets are identical, and control resource set identifiers or cell identifiers of the at least two control resource sets are different.

12. The method of claim 1, further comprising:

sending a signaling that includes a transmission configuration indication (TCI) state, wherein the TCI state comprises one of TCI state information of at least one cell, TCI state information of at least one TRP in a cell, and TCI state information of at least one antenna panel of a TRP.

13. A method for communication processing, performed by a user equipment (UE), comprising:

determining at least two time domain parameters and at least two received beams to receive downlink control information (DCI);

receiving the DCI with different received beams based on different time domain parameters in the at least two time domain parameters, wherein the DCI is sent by a network device via a physical downlink control channel (PDCCH) based on the different time domain parameters; and

determining at least two search spaces configured by the network device, wherein different search spaces correspond to different time domain parameters, and wherein configuration of the search space comprises configuration of following parameters: a PDCCH monitoring cycle, a PDCCH monitoring slot offset value and a within-slot monitoring-symbol position.

14. The method of claim 13, further comprising:

determining at least two control resource sets configured by the network device, wherein different search spaces in the at least two search spaces correspond to different control resource sets in the at least two control resource sets.

15. A network device, comprising:

a processor; and

a memory for storing executable instructions;

wherein when the executable instructions are executed, the processor is configured to implement the method for communication processing according to any one of claims 1 to 12.

16. A user equipment (UE), comprising:

a processor; and

a memory for storing executable instructions;

wherein when the executable instructions are executed, the processor is configured to implement the method for communication processing according to any one of claims 13 to 14.