

CLAIMS

What is claimed is:

1. A method for transmitting indication information, comprising:
performing transmission of a medium access control control element (MAC CE) command, wherein the MAC CE command is used to instruct to active N first objects and indicate a mapping relationship between the first objects and codepoints of a transmission configuration indicator field (TCI field) in downlink control information (DCI), the N first objects comprise transmission configuration indicator states (TCI state) in M TCI state groups and N-M TCI states, N is a positive integer, and M is an integer less than or equal to N;
wherein when M is greater than 0, the MAC CE command comprises a first MAC CE command, and the first MAC CE command is used to instruct to activate the TCI states in the M TCI state groups and indicate that the TCI states in the M TCI state groups correspond to M codepoints of the TCI field in the DCI; and/or
wherein when M is less than N, the MAC CE command further comprises a second MAC CE command, and the second MAC CE command is used to instruct to activate the N-M TCI states and indicate that the N-M TCI states correspond to N-M codepoints of the TCI field in the DCI.
2. The method according to claim 1, wherein the first MAC CE command comprises a first bit field, and the first bit field is used to instruct to activate the TCI states in the M TCI state groups.
3. The method according to claim 2, wherein the first bit field comprises identifier information of the TCI states in the M TCI state groups, the identifier information of the TCI states is sequentially arranged in the order of the TCI state groups, and identifier information of TCI states in a same TCI state group is consecutive.
4. The method according to claim 1, wherein TCI state groups with the same number of TCI states in the M TCI state groups are indicated in the first MAC CE command.
5. The method according to claim 1, wherein at least two of the M TCI state groups have the same number of TCI states.
6. The method according to claim 1, applied to a terminal, wherein the performing the transmission of the MAC CE command comprises receiving, by the terminal, the MAC CE command sent by a network device.
7. The method according to claim 1, applied to a network device, wherein the performing the transmission of the MAC CE command comprises sending, by the network device, the MAC CE command to a terminal.

8. A communications 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, following steps are implemented:

performing transmission of a medium access control control element (MAC CE) command, wherein the MAC CE command is used to instruct to active N first objects and indicate a mapping relationship between the first objects and codepoints of a transmission configuration indicator field (TCI field) in downlink control information (DCI), the N first objects comprise transmission configuration indicator states (TCI state) in M TCI state groups and N-M TCI states, N is a positive integer, and M is an integer less than or equal to N;

wherein when M is greater than 0, the MAC CE command comprises a first MAC CE command, and the first MAC CE command is used to instruct to activate the TCI states in the M TCI state groups and indicate that the TCI states in the M TCI state groups correspond to M codepoints of the TCI field in the DCI; and/or

wherein when M is less than N, the MAC CE command further comprises a second MAC CE command, and the second MAC CE command is used to instruct to activate the N-M TCI states and indicate that the N-M TCI states correspond to N-M codepoints of the TCI field in the DCI.

9. The communications device according to claim 8, wherein the first MAC CE command comprises a first bit field, and the first bit field is used to instruct to activate the TCI states in the M TCI state groups.

10. The communications device according to claim 9, wherein the first bit field comprises identifier information of the TCI states in the M TCI state groups, the identifier information of the TCI states is sequentially arranged in the order of the TCI state groups, and identifier information of TCI states in a same TCI state group is consecutive.

11. The communications device according to claim 8, wherein TCI state groups with the same number of TCI states in the M TCI state groups are indicated in the first MAC CE command.

12. The communications device according to claim 8, wherein at least two of the M TCI state groups have the same number of TCI states.

13. The communications device according to claim 8, wherein when the communication device is a terminal, the performing the transmission of the MAC CE command comprises receiving, by the communications device, the MAC CE command sent by a network device.

14. The communications device according to claim 8, wherein when the communication device is a network device, the performing the transmission of the MAC CE command comprises sending, by the communications device, the MAC CE command to a terminal.

15. 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, a communication device is caused to implement:

performing transmission of a medium access control control element (MAC CE) command, wherein the MAC CE command is used to instruct to active N first objects and indicate a mapping relationship between the first objects and codepoints of a transmission configuration indicator field (TCI field) in downlink control information (DCI), the N first objects comprise transmission configuration indicator states (TCI state) in M TCI state groups and N-M TCI states, N is a positive integer, and M is an integer less than or equal to N;

wherein when M is greater than 0, the MAC CE command comprises a first MAC CE command, and the first MAC CE command is used to instruct to activate the TCI states in the M TCI state groups and indicate that the TCI states in the M TCI state groups correspond to M codepoints of the TCI field in the DCI; and/or

wherein when M is less than N, the MAC CE command further comprises a second MAC CE command, and the second MAC CE command is used to instruct to activate the N-M TCI states and indicate that the N-M TCI states correspond to N-M codepoints of the TCI field in the DCI.