CLAIMS

What is claimed is:

1. A communication method, performed by a network device or a chip system of the network device, comprising:

determining based on a quantity of all paging occasions (POs) associated with a first paging indication (PI) and a quantity of subgroups comprised in each of all the POs associated with the first paging indication, a total quantity of subgroups comprised in all the POs associated with the first paging indication;

determining a bit value of each bit in a PI field of the first PI based on a second mapping manner, wherein the second mapping manner is a mapping manner in which the subgroups comprised in all the POs associated with the first paging indication are in a one-to-one correspondence with a plurality of bits of the PI field; and

sending the first paging indication to a terminal device.

2. The method according to claim 1, wherein

the method further comprises:

when there is a specific threshold and when the total quantity of subgroups is greater than a specific threshold, determining a bit value of each bit in the PI field of the first paging indication based on a first mapping manner, wherein the first mapping manner is a mapping manner in which at least two subgroups are mapped to a same bit in the PI field.

3. The method according to claim 1 or 2, wherein the method further comprises:

sending first information and third information to the terminal device, wherein

the first information indicates the quantity of all POs associated with the first paging indication or a quantity of PFs associated with the first paging indication; and

the third information indicates the quantity of subgroups comprised in each of all the POs.

4. The method according to claim 2, wherein

the specific threshold is associated with a quantity of bits of downlink control information (DCI) of a paging physical downlink control channel (PDCCH).

5. The method according to any one of claims 1 to 4, wherein the second mapping manner is a mapping in a sequence of first a paging frame (PF), then a PO, and finally a subgroup in a PO.

6. A communication method, performed by a terminal device or a chip system of the terminal device, comprising:

receiving a first paging indication from a network device,

wherein a total quantity of subgroups comprised in all paging occasions (POs) associated with the first paging indication is determined based on a quantity of all the POs associated with the first

paging indication and a quantity of subgroups comprised in each of all the POs associated with the first paging indication,

wherein a location of a target bit in a PI field of the first paging indication is determined based on a second mapping manner, wherein the second mapping manner is a mapping manner in which the subgroups comprised in all the POs associated with the first paging indication are in a one-to-one correspondence with a plurality of bits of the PI field; and

determining based on the first paging indication and the target bit, whether to monitor a paging message.

7. The method according to claim 6, wherein the method further comprises:

when there is a specific threshold and the total quantity of subgroups is greater than the specific threshold, determining the location of the target bit in the PI field in the first paging indication based on a first mapping manner, wherein the first mapping manner is a mapping manner in which at least two subgroups are mapped to a same bit in the PI field.

8. The method according to claim 6 or 7, wherein the method further comprises:

determining a target PO to which the terminal device belongs and a target subgroup of the terminal device in the target PO.

9. The method according to any one of claims 6 to 8, wherein the method further comprises:

receiving first information and third information from the network device, wherein

the first information indicates the quantity of all POs associated with the first paging indication or a quantity of PFs associated with the first paging indication; and

the third information indicates the quantity of subgroups comprised in each of all the POs associated with the first paging indication.

10. The method according to claim 7, wherein

the specific threshold is associated with a quantity of bits of downlink control information (DCI) of a paging physical downlink control channel (PDCCH).

11. The method according to any one of claim 6 to 10, wherein the second mapping manner is a mapping in a sequence of first a paging frame (PF), then a PO, and finally a subgroup in a PO.

12. A communication apparatus, comprising a unit configured to perform the method according to any one of claims 1 to 11.

13. A communication device, comprising a communication interface and a processor, wherein the processor is configured to execute a computer program or instructions, so that the communication device performs the method according to any one of claims 1 to 11.

14. A computer-readable storage medium, comprising a computer program or instructions, wherein when the computer program or the instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 11.

15. A computer program product, comprising instructions, wherein when the instructions are run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 11.