

CLAIMS

1. A method performed by a terminal device or a chip in the terminal device, comprising:
receiving first indication information and second indication information from a network
device, wherein the first indication information indicates a first time-frequency resource and the
second indication information indicates a first PDCCH candidate, and the first PDCCH candidate
and the first time-frequency resource meet the following relationships: at least one RE in the first
PDCCH candidate overlaps with at least one RE in the first time-frequency resource;

monitoring a PDCCH on the first PDCCH candidate.

2. The method according to claim 1, wherein at least one RE in the first PDCCH candidate
overlaps with at least one RE in the first time-frequency resource, and all symbols of the first
PDCCH candidate are within the first three symbols of an NR slot or within the first four symbols
of an NR slot.

3. The method according to claim 1, wherein at least one RE in the first PDCCH candidate
overlaps with at least one RE in the first time-frequency resource, and the first PDCCH candidate
belongs to the UE-specific search space or a type 3 common search space.

4. The method according to claim 1, wherein any RE in an RE set on at least one symbol in
the first PDCCH candidate does not overlap with any RE in the first time-frequency resource.

5. The method according to claim 2, wherein the method further comprises:

sending capability information to the network device, wherein the capability information
indicates a capability of monitoring the PDCCH on the first PDCCH candidate when at least one
RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource,
and when all symbols in the first PDCCH candidate are within the first three symbols of an NR
slot or within the first four symbols of an NR slot.

6. The method according to claim 3, wherein the method further comprises:

sending capability information to the network device, wherein the capability information
indicates a capability of monitoring the PDCCH on the first PDCCH candidate when the first
PDCCH candidate belongs to the UE-specific search space or the type 3 common search space.

7. The method according to claim 4, wherein the method further comprises:

sending capability information to the network device, wherein the capability information
indicates a capability of monitoring the PDCCH on the first PDCCH candidate when at least one
RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource
and when any RE in an RE set on at least one symbol in the first PDCCH candidate does not
overlap with any RE in the first time-frequency resource.

8. The method according to any one of claims 1 to 7, wherein the method further comprises:

sending capability information to the network device, wherein the capability information indicates a capability of monitoring the PDCCH on the first PDCCH candidate when at least one RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource, and when there are a maximum of Q sets of first time-frequency resource-related configurations, and at least one RE in the first time-frequency resource indicated by any one of the Q sets of first time-frequency resource-related configurations overlaps with at least one RE in the first PDCCH candidate.

9. A method performed by a network device or a chip in the network device, comprising:

sending first indication information and second indication information to a terminal device, wherein the first indication information indicates a first time-frequency resource and the second indication information indicates a first PDCCH candidate, and the first PDCCH candidate and the first time-frequency resource meet the following relationships: at least one RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource;

sending a PDCCH on the first PDCCH candidate.

10. The method according to claim 9, wherein at least one RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource, and all symbols of the first PDCCH candidate are within the first three symbols of an NR slot or within the first four symbols of an NR slot.

11. The method according to claim 9, wherein at least one RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource, and the first PDCCH candidate belongs to the UE-specific search space or a type 3 common search space.

12. The method according to claim 9, wherein any RE in an RE set on at least one symbol in the first PDCCH candidate does not overlap with any RE in the first time-frequency resource.

13. The method according to claim 10, wherein the method further comprises:

receiving capability information from the terminal device, wherein the capability information indicates a capability of monitoring the PDCCH on the first PDCCH candidate when at least one RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource, and when all symbols in the first PDCCH candidate are within the first three symbols of an NR slot or within the first four symbols of an NR slot.

14. The method according to claim 11, wherein the method further comprises:

receiving capability information from the terminal device, wherein the capability information indicates a capability of monitoring the PDCCH on the first PDCCH candidate when the first PDCCH candidate belongs to the UE-specific search space or the type 3 common search space.

15. The method according to claim 12, wherein the method further comprises:

receiving capability information from the terminal device, wherein the capability information

indicates a capability of monitoring the PDCCH on the first PDCCH candidate when at least one RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource and when any RE in an RE set on at least one symbol in the first PDCCH candidate does not overlap with any RE in the first time-frequency resource.

5 16. The method according to any one of claims 9 to 15, wherein the method further comprises:
receiving capability information from the terminal device, wherein the capability information indicates a capability of monitoring the PDCCH on the first PDCH candidate when at least one RE in the first PDCCH candidate overlaps with at least one RE in the first time-frequency resource, and when there are a maximum of Q sets of first time-frequency resource-related configurations,
10 and at least one RE in the first time-frequency resource indicated by any one of the Q sets of first time-frequency resource-related configurations overlaps with at least one RE in the first PDCCH candidate.

17. An apparatus, which is configured to perform the method according to any one of claims 1 to 8, or the method according to any one of claims 9 to 16.

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