

CLAIMS

1. A method for determining a channel resource, implemented by a terminal device and the method comprising:

determining at least two resource sets;

determining a first resource from one resource set of the at least two resource sets, wherein the at least two resource sets at least comprises a first resource set corresponding to a first Demodulation Reference Signal (DMRS) mapping type and a second resource set corresponding to a second DMRS mapping type, wherein the first resource set is different from the second resource set and the first DMRS mapping type is different from the second DMRS mapping type; and

transmitting a first channel based on the first resource,

wherein transmitting the first channel based on the first resource comprises:

in a case that the first resource is determined based on the first resource set, transmitting the first channel by use of the first DMRS mapping type, wherein the use of the first DMRS mapping type comprises a time-domain resource being indicated by taking a slot and/or a symbol as a unit; and

in a case that the first resource is determined based on the second resource set, transmitting the first channel by use of the second DMRS mapping type, wherein the use of the second DMRS mapping type comprises a time-domain resource being indicated by taking a symbol as a unit, and

determining the first resource from one resource set of the at least two resource sets comprises:

determining, by the terminal device, the first resource from one resource set of the at least two resource sets according to first control information transmitted by a network side,

wherein the first control information comprises number information of the first resource in the one resource set of the at least two resource sets.

2. The method of claim 1, wherein each resource set comprises at least one of a time-domain resource, a frequency-domain resource and a code-domain resource.

3. The method of claim 1, wherein determining the at least two resource sets comprises:

determining configurations of the at least two resource sets based on preset information.

4. The method of claim 1, wherein the first control information is Downlink Control Information (DCI) and/or a Media Access Control (MAC) Control Element (CE).

5. The method of claim 1, wherein in a case that the first channel is transmitted in the first DMRS mapping type corresponding to the first resource set, the method further comprises:

determining a position of at least one DMRS symbol according to a starting symbol of a slot where the channel is transmitted.

6. The method of claim 5, wherein the at least one DMRS symbol is a third time-domain symbol or fourth time-domain symbol of the slot.

7. The method of claim 1, wherein in a case that the first channel is transmitted in the second DMRS mapping type corresponding to the second resource set,

a position of at least one DMRS symbol on the first channel which is transmitted in the second DMRS mapping type is determined according to a starting symbol of a group of symbols, the group of symbols being symbols for transmitting the first channel.

8. The method of claim 7, wherein the at least one DMRS symbol is one of:

a first symbol in the group of symbols;
one symbol in a central range of the group of symbols;
an odd symbol in the group of symbols; or
an even symbol in the group of symbols.

9. A terminal device, comprising: a processing unit, configured to:

determine at least two resource sets; and

determine a first resource from one resource set of the at least two

resource sets, wherein the at least two resource sets at least comprises a first resource set corresponding to a first Demodulation Reference Signal (DMRS) mapping type and a second resource set corresponding to a second DMRS mapping type, wherein the first resource set is different from the second resource set and the first DMRS mapping type is different from the second DMRS mapping type,

wherein the terminal device further comprises:

a communication unit, configured to transmit a first channel based on the first resource, wherein the communication unit is specifically configured to:

in a case that the first resource is determined based on the first resource set, transmit the first channel by use of the first DMRS mapping type, wherein the use of the first DMRS mapping type comprises a time-domain resource being indicated by taking a slot and/or a symbol as a unit, and

in a case that the first resource is determined based on the second resource set, transmit the first channel by use of the second DMRS mapping type, wherein the use of the second DMRS mapping type comprises a time-domain resource being indicated by taking a symbol as a unit;

wherein the processing unit is configured to determine the first resource from one resource set of the at least two resource sets according to first control information transmitted by a network side, the first control information comprising number information of the first resource in the one resource set of the at least two resource sets.

10. The terminal device of claim 9, wherein the processing unit is configured to determine configurations of the at least two resource sets based on preset information.

11. The terminal device of claim 9 or 10, wherein the processing unit is configured to:

in a case that the first channel is transmitted by use of the first DMRS mapping type corresponding to the first resource set, determine a position of at least one DMRS symbol according to a starting symbol of a slot where the channel is transmitted;

or,

in a case that the first channel is transmitted by use of the second DMRS mapping type corresponding to the second resource set, determine a position of at least one

DMRS symbol on the first channel transmitted in the second DMRS mapping type according to a starting symbol of a group of symbols, the group of symbols being symbols for transmitting the first channel.