

CLAIMS

What is claimed is:

1. A beam information determining method, performed by a terminal and comprising:

5 determining a candidate beam information pool of a first set, wherein the first set comprises at least one downlink channel and at least one uplink channel, or the first set comprises at least one channel and at least one reference signal; and the candidate beam information pool comprises at least one piece of candidate beam information; and

10 determining, based on the candidate beam information pool, beam information of at least one of a first channel and a first reference signal that are comprised in the first set.

2. The beam information determining method according to claim 1, wherein in a case that the candidate beam information pool comprises one piece of candidate
15 beam information, the determining, based on the candidate beam information pool, beam information of at least one of a first channel and a first reference signal that are comprised in the first set comprises:

 determining, based on the one piece of candidate beam information comprised in the candidate beam information pool, the beam information of at least one of the
20 first channel and the first reference signal that are comprised in the first set.

3. The beam information determining method according to claim 1, wherein in a case that the candidate beam information pool comprises at least two pieces of candidate beam information, the determining, based on the candidate beam information pool, beam information of at least one of a first channel and a first
25 reference signal that are comprised in the first set comprises:

 receiving first indication information for at least one of the first channel and the first reference signal that are comprised in the first set, wherein the first indication information is used to indicate one piece of candidate beam information in the candidate beam information pool; and

determining the beam information of at least one of the first channel and the first reference signal based on the first indication information.

4. The beam information determining method according to claim 1, wherein the determining a candidate beam information pool of a first set comprises:

5 determining the candidate beam information pool of the first set based on a common candidate beam information pool configured or activated by a network-side device for all objects of the first set;

or,

10 determining the candidate beam information pool of the first set based on a candidate beam information pool configured or activated by the network-side device for a first object in the first set, wherein other objects in the first set use the candidate beam information pool of the first object as a candidate beam information pool; wherein

the object is at least one of a channel and a reference signal.

15 5. The beam information determining method according to claim 3, further comprising:

determining, based on the beam information of at least one of the first channel and the first reference signal, beam information of at least one of a second channel and a second reference signal that are comprised in the first set.

20 6. The beam information determining method according to claim 5, wherein the determining, based on the beam information of at least one of the first channel and the first reference signal, beam information of at least one of a second channel and a second reference signal that are comprised in the first set comprises:

25 determining, based on the beam information of at least one of the first channel and the first reference signal, beam information of at least one of a second channel and a second reference signal that are scheduled by at least one of the first channel and the first reference signal.

7. The beam information determining method according to claim 3, further comprising:

receiving second indication information for at least one of a third channel and a third reference signal that are comprised in the first set, wherein the second indication information is used to indicate one piece of candidate beam information in the candidate beam information pool; and

5 in a case that an application time of the candidate beam information indicated by the first indication information is a latest application time, determining beam information of at least one of the first channel, the first reference signal, the third channel, and the third reference signal based on the candidate beam information indicated by the first indication information; or

10 in a case that an application time of the candidate beam information indicated by the second indication information is a latest application time, determining beam information of at least one of the first channel, the first reference signal, the third channel, and the third reference signal based on the candidate beam information indicated by the second indication information.

15 8. The beam information determining method according to claim 3, wherein the method further comprises:

updating, based on latest applicable candidate beam information indicated by indication information for any object in the first set, candidate beam information of an object comprised in the first set;

20 or,

updating, based on latest applicable candidate beam information indicated by indication information for a preset object in the first set, candidate beam information of an object comprised in the first set; wherein

the object is at least one of a channel and a reference signal.

25 9. A terminal, comprising a memory, a processor, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the following steps are implemented:

30 determining a candidate beam information pool of a first set, wherein the first set comprises at least one downlink channel and at least one uplink channel, or the

first set comprises at least one channel and at least one reference signal; and the candidate beam information pool comprises at least one piece of candidate beam information; and

5 determining, based on the candidate beam information pool, beam information of at least one of a first channel and a first reference signal that are comprised in the first set.

10 10. The terminal according to claim 9, wherein in a case that the candidate beam information pool comprises at least two pieces of candidate beam information, the step of determining, based on the candidate beam information pool, beam information of at least one of a first channel and a first reference signal that are comprised in the first set comprises:

15 receiving first indication information for at least one of the first channel and the first reference signal that are comprised in the first set, wherein the first indication information is used to indicate one piece of candidate beam information in the candidate beam information pool; and

determining the beam information of at least one of the first channel and the first reference signal based on the first indication information.

11. The terminal according to claim 9, wherein the step of determining a candidate beam information pool of a first set comprises:

20 determining the candidate beam information pool of the first set based on a common candidate beam information pool configured or activated by a network-side device for all objects of the first set;

or,

25 determining the candidate beam information pool of the first set based on a candidate beam information pool configured or activated by the network-side device for a first object in the first set, wherein other objects in the first set use the candidate beam information pool of the first object as a candidate beam information pool; wherein

the object is at least one of a channel and a reference signal.

12. The terminal according to claim 10, wherein when the computer program is executed by the processor, the following steps are further implemented:

determining, based on the beam information of at least one of the first channel and the first reference signal, beam information of at least one of a second channel
5 and a second reference signal that are scheduled by at least one of the first channel and the first reference signal.

13. The terminal according to claim 10, wherein when the computer program is executed by the processor, the following steps are further implemented:

receiving second indication information for at least one of a third channel and a
10 third reference signal that are comprised in the first set, wherein the second indication information is used to indicate one piece of candidate beam information in the candidate beam information pool; and

in a case that an application time of the candidate beam information indicated by the first indication information is a latest application time, determining beam
15 information of at least one of the first channel, the first reference signal, the third channel, and the third reference signal based on the candidate beam information indicated by the first indication information; or

in a case that an application time of the candidate beam information indicated by the second indication information is a latest application time, determining beam
20 information of at least one of the first channel, the first reference signal, the third channel, and the third reference signal based on the candidate beam information indicated by the second indication information.

14. The terminal according to claim 10, wherein when the computer program is executed by the processor, the following steps are further implemented:

25 updating, based on latest applicable candidate beam information indicated by indication information for any object in the first set, candidate beam information of an object comprised in the first set;

or,

updating, based on latest applicable candidate beam information indicated by indication information for a preset object in the first set, candidate beam information of an object comprised in the first set; wherein

the object is at least one of a channel and a reference signal.

- 5 15. A network-side device, comprising a memory, a processor, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the following steps are implemented:

10 configuring a candidate beam information pool of a first set, wherein the first set comprises at least one downlink channel and at least one uplink channel, or the first set comprises at least one channel and at least one reference signal; and the candidate beam information pool comprises at least one piece of candidate beam information; and

15 determining, based on the candidate beam information pool, beam information of at least one of a first channel and a first reference signal that are comprised in the first set.

16. The network-side device according to claim 15, wherein in a case that the candidate beam information pool comprises at least two pieces of candidate beam information, the determining, based on the candidate beam information pool, beam information of at least one of a first channel and a first reference signal that are comprised in the first set comprises:

20 sending first indication information for at least one of the first channel and the first reference signal that are comprised in the first set, wherein the first indication information is used to indicate one piece of candidate beam information in the candidate beam information pool; and

25 determining the beam information of at least one of the first channel and the first reference signal based on the first indication information.

17. The network-side device according to claim 15, wherein the configuring a candidate beam information pool of a first set comprises:

configuring or activating a common candidate beam information pool for all objects in the first set;

or,

5 configuring or activating a candidate beam information pool of a first object in the first set; wherein other objects in the first set use the candidate beam information pool of the first object as a candidate beam information pool; wherein the object is at least one of a channel and a reference signal.

18. The network-side device according to claim 16, wherein when the computer program is executed by the processor, the following steps are further implemented:

10 determining, based on the beam information of at least one of the first channel and the first reference signal, beam information of at least one of a second channel and a second reference signal that are scheduled by at least one of the first channel and the first reference signal.

15 19. The network-side device according to claim 16, wherein when the computer program is executed by the processor, the following steps are further implemented:

sending second indication information for at least one of a third channel and a third reference signal that are comprised in the first set, wherein the second indication information is used to indicate one piece of candidate beam information in the candidate beam information pool; and

20 in a case that an application time of the candidate beam information indicated by the first indication information is a latest application time, determining beam information of at least one of the first channel, the first reference signal, the third channel, and the third reference signal based on the candidate beam information indicated by the first indication information; or

25 in a case that an application time of the candidate beam information indicated by the second indication information is a latest application time, determining beam information of at least one of the first channel, the first reference signal, the third channel, and the third reference signal based on the candidate beam information indicated by the second indication information.

20. The network-side device according to claim 16, wherein when the computer program is executed by the processor, the following steps are further implemented:

updating, based on latest applicable candidate beam information indicated by indication information for any object in the first set, candidate beam information of an object comprised in the first set;

or,

updating, based on latest applicable candidate beam information indicated by indication information for a preset object in the first set, candidate beam information of an object comprised in the first set; wherein

the object is at least one of a channel and a reference signal.