CLAIMS

What is claimed is:

1. A communication method, applied for a first terminal device or a chip of the first terminal device, comprising:

receiving first information sent from a network device, wherein the first information comprises a reference signal configuration of a first unicast connection and a measurement configuration of the first unicast connection, the measurement configuration is for the second terminal device to perform measurement, the reference signal configuration is for the first terminal device to send a reference signal to a second terminal device, and the first unicast connection is a unicast connection between the first terminal device and the second terminal device on a sidelink;

sending the measurement configuration to the second terminal device;

sending the reference signal to the second terminal device on the sidelink based on the reference signal configuration; and

receiving a measurement result from the second terminal device, wherein the measurement result is a result obtained by the second terminal device by measuring the reference signal on the first unicast connection.

2. The method according to claim 1, wherein the first information further comprises indication information of the first unicast connection.

3. The method according to claim 1 or 2, wherein the measurement configuration comprises a second parameter configuration, the second parameter configuration comprises a parameter configuration for the second terminal device to perform measurement, and the second parameter configuration comprises one or more of the following:

a measurement quantity configuration, a measurement report configuration, or a measurement identifier.

4. The method according to any one of claims 1 to 3, wherein the method further comprises:

receiving second information sent from the second terminal device, wherein the second information is used to indicate that the second terminal device successfully completes configuration.

5. The method according to any one of claims 1 to 4, wherein the method further comprises:

sending the measurement result to the network device.

6. A communication method, applied for a second terminal device or a chip of the second terminal device, comprising:

obtaining from a first terminal device, a measurement configuration, wherein the measurement

configuration is for the second terminal device to perform measurement;

receiving on a sidelink based on the measurement configuration, a reference signal sent from the first terminal device;

performing measurement on a first unicast connection based on the reference signal, wherein the first unicast connection is a unicast connection between the first terminal device and the second terminal device on the sidelink; and

sending a measurement result to the first terminal device, wherein the measurement result is a result obtained by the second terminal device by measuring the reference signal on the first unicast connection.

7. The method according to claim 6, wherein the measurement configuration is generated by a network device.

8. The method according to claim 6 or 7, wherein the measurement configuration comprises a second parameter configuration, the second parameter configuration comprises a parameter configuration for the second terminal device to perform measurement, and the second parameter configuration comprises one or more of the following:

a measurement quantity configuration, a measurement report configuration, or a measurement identifier.

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

sending second information to the first terminal device, wherein the second information is used to indicate that the second terminal device successfully completes configuration.

10. A communication method, applied for a system comprising a network device or a chip of the network device, comprising:

generating first information, wherein the first information comprises a reference signal configuration of a first unicast connection and a measurement configuration of the first unicast connection, the measurement configuration is for a second terminal device to perform measurement, the reference signal configuration is for a first terminal device to send a reference signal to a second terminal device, and the first unicast connection is a unicast connection between the first terminal device and the second terminal device on a sidelink;

sending the first information to the first terminal device;

at the first terminal device, performing the steps of any of claims 1-5;

at the second terminal device, performing the steps of any of claims 6-9; and

at the network device, receiving a measurement result from the first terminal device, wherein the measurement result is a result obtained by the second terminal device by measuring the reference signal on the first unicast connection.

11. The method according to claim 10, wherein the first information further comprises indication information of the first unicast connection.

12. The method according to claim 10 or 11, wherein the measurement configuration comprises a second parameter configuration, the second parameter configuration comprises a parameter configuration for the second terminal device to perform measurement, and the second parameter configuration comprises one or more of the following:

a measurement quantity configuration, a measurement report configuration, or a measurement identifier.

13. A communications apparatus, configured to perform the method according to any one of claims 1 to 5 or any one of claims 6 to 9 or any one of claims 10 to 12.

14. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is run on a computer, the computer is enabled to perform the method according to any one of claims 1 to 12.

15. A program product, wherein the program product comprises program code, and when the program code is run on one or more processors, the one or more processors are enabled to perform the method according to any one of claims 1 to 12.

16. A chip, wherein the chip comprises a processor and a communications interface, the communications interface is configured to communicate with an external device, and the processor is configured to perform the method according to any one of claims 1 to 12.

17. A communications system, wherein the communications system comprises one or more communications apparatuses, and the communications apparatus is the communications apparatus according to claim 13.