CLAIMS

1. A communication method, comprising:

determining, by a first terminal device, a first discontinuous reception (DRX) parameter based on a transmission requirement of a first vehicle-to-everything (V2X) service, wherein the transmission requirement comprises a service requirement; and

sending, by the first terminal device, the first DRX parameter to a second terminal device, wherein the first DRX parameter is used for proximity communication 5 (PC5) communication of the first V2X service between the first terminal device and the second terminal device;

wherein the determining, by a first terminal device, a first DRX parameter based on a transmission requirement of a first V2X service comprises:

sending, by a V2X layer of the first terminal device, the transmission requirement of the first V2X service to an access stratum of the first terminal device; and

determining, by the access stratum of the first terminal device, the first DRX parameter based on the transmission requirement of the first V2X service; and

wherein the method further comprises:

sending, by the V2X layer of the first terminal device, DRX indication information to an access stratum of the first terminal device, wherein the DRX indication information indicates to obtain a DRX parameter for the first V2X service; and

determining, by the access stratum of the first terminal device, the first DRX parameter based on the DRX indication information and the transmission requirement of the first V2X service.

2. The method according to claim 1, wherein the determining, by a first terminal device, a first DRX parameter based on a transmission requirement of a first V2X service comprises:

determining, by the first terminal device, the first DRX parameter based on the transmission requirement of the first V2X service and a transmission requirement of one or more third V2X services, wherein the one or more third V2X services are a V2X service being performed by the first terminal device.

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

receiving, by the first terminal device, an acknowledgment message from the second terminal device, wherein the acknowledgment message indicates that the second terminal device accepts the first DRX parameter; and

performing, by the first terminal device, PC5 communication of the first V2X service with the second terminal device based on the first DRX parameter.

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

receiving, by the first terminal device, a second message from the second terminal device, wherein the second message comprises a second DRX parameter, and the second DRX parameter is used for PC5 communication of the first V2X service between the first terminal device and the second terminal device; and

performing, by the first terminal device, PC5 communication of the first V2X service with the second terminal device based on the second DRX parameter, or performing, by the first terminal device, PC5 communication of the first V2X service with the second terminal device based on the first DRX parameter and the second DRX parameter.

5. The method according to claim 4, wherein the performing, by the first terminal device, PC5 communication of the first V2X service with the second terminal device based on the first DRX parameter and the second DRX parameter comprises:

receiving, by the first terminal device based on the first DRX parameter, data that of the first V2X service from the second terminal device, and sending data of the first V2X service to the second terminal device based on the second DRX parameter.

6. The method according to any one of claims 1 to 6, wherein the method further comprises:

receiving, by the first terminal device, a fifth DRX parameter of the first terminal device from a network device; and

the determining, by a first terminal device, a first DRX parameter based on a transmission requirement of a first V2X service comprises:

determining, by the first terminal device, the first DRX parameter based on the transmission requirement of the first V2X service and the fifth DRX parameter of the first terminal device.

7. The method according to any one of claims 1 to 6, wherein the service requirement of the first V2X service comprises a QoS parameter of at least one PC5 quality of service (QoS) flow that is for transmitting the first V2X service and that is between the first terminal device and the second terminal device, and the QoS parameter comprises a data packet transmission delay requirement.

8. A communication method, comprising:

receiving, by a second terminal device, a first discontinuous reception (DRX) parameter from

a first terminal device, wherein the first DRX parameter is used for proximity communication 5 (PC5) communication of a first V2X service between the first terminal device and the second terminal device;

performing, by the second terminal device, PC5 communication of the first V2X service with the first terminal device based on the first DRX parameter; wherein the performing, by the second terminal device, PC5 communication of the first V2X service with the first terminal device based on the first DRX parameter comprises: sending, by the second terminal device, data of the first V2X service to the first terminal device based on the first DRX parameter; and

sending, by the second terminal device, a second message to the first terminal device, wherein the second message comprises a second DRX parameter, the second DRX parameters being used by the first terminal device to send data of the first V2X service to the second terminal device.

.

9. A communication apparatus, comprising a processor and an interface circuit, wherein the interface circuit is configured to receive a signal from another communication apparatus other than the communication apparatus and transmit the signal to the processor, or send a signal from the processor to another communication apparatus other than the communication apparatus; and the processor is configured to implement, by using a logic circuit or execution code instructions, the method according to any one of claims 1 to 7, or the method according to claim 8.

10. A computer-readable storage medium, wherein the storage medium stores a computer program or instructions; and when the computer program or the instructions are run by a communication apparatus, the method according to any one of claims 1 to 7 is implemented, or the method according to claim 8 is implemented.

11. A communication system, wherein the system comprises a first terminal device configured to perform the method according to any one of claims 1 to 7 and a second terminal device configured to perform the method according to claim 8.

12. A computer program product, comprising a computer program or instructions, wherein when the computer program or the instructions are executed, the method according to any one of claims 1 to 7 is implemented, or the method according to claim 10 to 12 is implemented.