

CLAIMS

1. A data transmission method, comprising:
 - generating, by a terminal device, indication information, the indication information being used for indicating a delay requirement of the terminal device; and
 - sending, by the terminal device, the indication information to a network device.
2. The method of claim 1, wherein sending, by the terminal device, the indication information to the network device comprises:
 - sending, by the terminal device, assistance information to the network device, the assistance information being used for the network device to allocate a transmission resource to the terminal device, and the assistance information comprising a service period of the terminal device and the indication information.
3. The method of claim 1, wherein sending, by the terminal device, the indication information to the network device comprises:
 - sending, by the terminal device, sidelink, SL, information to the network device, the SL information being used for indicating information of an SL of the terminal device, and the SL information comprising the indication information.
4. The method of claim 1, wherein sending, by the terminal device, the indication information to the network device comprises:
 - sending, by the terminal device, priority information of a service of the terminal device to the network device, the priority information being used for indicating the delay requirement of the terminal device.
5. The method of claim 1, wherein sending, by the terminal device, the indication information to the network device comprises:
 - sending, by the terminal device, a Quality of Service, QoS, level to the network device, the QoS level being used for indicating the delay requirement of the terminal device.
6. The method of claim 1, wherein sending, by the terminal device, the indication

information to the network device comprises:

sending, by the terminal device, a Buffer Status Report, BSR, to the network device, the BSR comprising a destination index and a logical channel group identification, LCG ID, and at least one of the destination index or the LCG ID being used for indicating the delay requirement of the terminal device.

7. The method of any one of claims 1-6, further comprising:

receiving, by the terminal device, scheduling information sent by the network device, the scheduling information comprising the transmission resource allocated to the terminal device by the network device; and

performing, by the terminal device, transmission of data on the transmission resource.

8. A terminal device, comprising:

a generation unit, configured to generate indication information, the indication information being used for indicating a delay requirement of the terminal device; and

a transceiver unit, configured to send the indication information to a network device.

9. The terminal device of claim 8, wherein the transceiver unit is configured to:

send assistance information to the network device, the assistance information being used for the network device to allocate a transmission resource to the terminal device and the assistance information comprising a service period of the terminal device and the indication information.

10. The terminal device of claim 8, wherein the transceiver unit is configured to:

send sidelink, SL, information to the network device, the SL information being used for indicating information of an SL of the terminal device, and the SL information comprising the indication information.

11. The terminal device of claim 8, wherein the transceiver unit is configured to:

send priority information of a service of the terminal device to the network device, the priority information being used for indicating the delay requirement of the

terminal device.

12. The terminal device of claim 11, wherein the priority information comprises a prose per-packet priority, PPPP.

13. The terminal device of claim 8, wherein the transceiver unit is configured to:
send a Quality of Service, QoS, level to the network device, the QoS level being used for indicating the delay requirement of the terminal device.

14. The terminal device of claim 8, wherein the transceiver unit is configured to:
send a Buffer Status Report, BSR, to the network device, the BSR comprising a destination index and a logical channel group identification, LCG ID, and at least one of the destination index or the LCG ID being used for indicating the delay requirement of the terminal device.

15. The terminal device of any one of claims 8-14, wherein the transceiver unit is further configured to:
receive scheduling information sent by the network device, the scheduling information comprising the transmission resource allocated to the terminal device by the network device; and
perform transmission of data on the transmission resource.

16. A network device, comprising:
a transceiver unit, configured to receive indication information sent by a terminal device, the indication information being used for indicating a delay requirement of the terminal device; and
a processing unit, configured to allocate a transmission resource to the terminal device according to the indication information.

17. The network device of claim 16, wherein the transceiver unit is configured to:
receive assistance information sent by the terminal device, the assistance information being used for the network device to allocate the transmission resource to the terminal device, and the assistance information comprising a service period of the

terminal device and the indication information;

or,

receive sidelink (SL) information sent by the terminal device, the SL information being used for indicating information of an SL of the terminal device, and the SL information comprising the indication information.

18. The network device of claim 16, wherein the transceiver unit is configured to:

receive priority information of a service of the terminal device from the terminal device, the priority information being used for indicating the delay requirement of the terminal device; and

the processing unit is configured to:

allocate the transmission resource to the terminal device according to the delay requirement of the terminal device indicated by the priority information.

19. The network device of claim 16, wherein the transceiver unit is configured to:

receive a Quality of Service, QoS, level sent by the terminal device, the QoS level being used for indicating the delay requirement of the terminal device; and

the processing unit is configured to:

allocate the transmission resource to the terminal device according to the delay requirement of the terminal device indicated by the QoS level.

20. The network device of claim 16, wherein the transceiver unit is configured to:

receive a Buffer Status Report, BSR, sent by the terminal device, the BSR comprising a destination index and a logical channel group identification, LCG ID, and at least one of the destination index or the LCG ID being used for indicating the delay requirement of the terminal device; and

the processing unit is configured to:

allocate the transmission resource to the terminal device according to the delay requirement of the terminal device indicated by at least one of the destination index or the LCG ID.