

T1 and through PDCCH, the frequency domain resource used to perform the pre-scheduled service at the time moment T1. The base station may also indicate to the terminal, at a predetermined time moment T1' before the time T1 and through PDCCH, the frequency domain resource used to perform the pre-scheduled service at the time moment T1. In addition, the base station may indicate to the terminal at a time moment T1 and through PDCCH, the frequency domain resources used to perform the pre-scheduled service respectively at the time moments T1, T2 and T3. Alternatively, the base station may indicate to the terminal, at a predetermined time moment T1' before the time T1 and through PDCCH, the frequency domain resources used to perform the pre-scheduled service respectively at the time moments T1, T2 and T3.

[00118] In some embodiments, the method for scheduling a terminal device further includes: the network device receiving a service request message from the terminal device, and the service request message indicates a time moment when the terminal device will perform the pre-scheduled service and a size of data to be transmitted for the pre-scheduled service. The network device determining the first configuration information includes: the network device determining the first configuration information according to the service request message.

[00119] Specifically, the service request information may be specifically in the form shown in Table 8. As shown in Table 8, the terminal device needs to transmit a service with a data size of S1 at a time moment T1, and needs to transmit a service with a data size of S2 at a time moment T2. After receiving the service request message, the network device may determine the first configuration information according to the service request message. For example, the first configuration information may indicate that the terminal device transmits the service with the data size of S1 at the time moment T1 using a frequency domain resource F1, and transmits the service with the data size of S2 at the time moment T2 using a frequency domain resource F2.

[00120] In the embodiment of the present disclosure, the network device can determine the time domain resource and the frequency domain resource used by the terminal device to perform the pre-scheduled service more reasonably according to the service request message sent by the terminal device, so that the terminal device can perform the pre-scheduled service

WHAT IS CLAIMED IS:

1. A method for scheduling a terminal device, comprising:
determining , by a network device, first configuration information, the first configuration information indicating a time domain resource and a frequency domain resource used by the terminal device to perform a pre-scheduled service; and
sending, by the network device, the first configuration information to the terminal device.
2. The method according to claim 1, wherein the pre-scheduled service is a periodic service, and the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to perform the pre-scheduled service at each of time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.
3. The method according to claim 2, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.
4. The method according to claim 1, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform the pre-scheduled service at each time moment.
5. The method according to any one of claims 1-4, wherein the first configuration information is sent by the network device through high layer signaling or physical layer signaling.
6. The method according to any one of claims 1-4, wherein the first configuration

information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is sent by the network device through the high layer signaling, and the frequency domain resource indication information is sent by the network device through the physical layer signaling.

7. A method for scheduling a terminal device, comprising:

receiving, by the terminal device, first configuration information from a network device, the first configuration information indicating a time domain resource and a frequency domain resource used by the terminal device to perform a pre-scheduled service; and

performing, by the terminal device, the pre-scheduled service on the time domain resource and the frequency domain resource indicated by the first configuration information.

8. The method according to claim 7, wherein the pre-scheduled service is a periodic service, the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to perform the pre-scheduled service at each of time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.

9. The method according to claim 8, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.

10. The method according to claim 7, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform the pre-scheduled service at each time moment.

11. The method according to any one of claims 7-10, wherein the first configuration information is received by the terminal device through high layer signaling or physical layer signaling.

12. The method according to any one of claims 7-10, wherein the first configuration information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is received by the terminal device through the high layer signaling, and the frequency domain resource indication information is received by the terminal device through the physical layer signaling.

13. A method for scheduling a terminal device, comprising:

receiving, by a network device, a service request message from the terminal device, the service request message indicating a time moment when the terminal device will perform a pre-scheduled service and a size of data to be transmitted for the pre-scheduled service;

determining, by the network device, first configuration information according to the service request message, the first configuration information indicating a time domain resource and a frequency domain resource used by the terminal device to perform the pre-scheduled service; and

sending, by the network device, the first configuration information to the terminal device.

14. The method according to claim 13, wherein the pre-scheduled service is a periodic service, the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to perform the pre-scheduled service at each of time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.

15. The method according to claim 14, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.

16. The method according to claim 13, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform the pre-scheduled service at each time moment.

17. The method according to any one of claims 13-16, wherein the first configuration information is sent by the network device through high layer signaling or physical layer signaling.

18. The method according to any one of claims 13-16, wherein the first configuration information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is sent by the network device through the high layer signaling, and the frequency domain resource indication information is sent by the network device through the physical layer signaling.

19. A method for scheduling a terminal device, comprising:

sending, by the terminal device, a service request message to a network device, the service request message indicating a time moment when the terminal device will perform a pre-scheduled service and a size of data to be transmitted for the pre-scheduled service;

receiving, by the terminal device, first configuration information from the network device, the first configuration information indicating a time domain resource and a frequency domain resource used by the terminal device to perform the pre-scheduled service; and

performing, by the terminal device, the pre-scheduled service on the time domain resource and the frequency domain resource indicated by the first configuration information.

20. The method according to claim 19, wherein the pre-scheduled service is a periodic service, the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to perform the pre-scheduled service at each of time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.

21. The method according to claim 20, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.

22. The method according to claim 19, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform the pre-scheduled service at each time moment.

23. The method according to any one of claims 19-22, wherein the first configuration information is received by the terminal device through high layer signaling or physical layer signaling.

24. The method according to any one of claims 19-22, wherein the first configuration information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is received by the terminal device through the high layer signaling, and the frequency domain resource indication information is received by the terminal device through the physical layer signaling.

25. A network device, comprising:

a determining module configured to determine first configuration information, the first configuration information indicating a time domain resource and a frequency domain resource used by a terminal device to perform a pre-scheduled service; and

a sending module configured to send the first configuration information to the terminal device.

26. The network device according to claim 25, wherein the pre-scheduled service is a periodic service, and the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to perform the pre-scheduled service at each of the time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.

27. The network device according to claim 26, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.

28. The network device according to claim 25, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform the pre-scheduled service at each time moment.

29. The network device according to any one of claims 25-28, wherein the first configuration information is sent by the sending module through high layer signaling or physical layer signaling.

30. The network device according to any one of claims 25-28, wherein the first configuration information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is sent by the sending module through the high layer signaling, and the frequency domain resource indication information is sent by the sending module through the physical layer signaling.

31. A terminal device, comprising:

a receiving module configured to receive first configuration information from a network device, the first configuration information indicating a time domain resource and a frequency domain resource used by the terminal device to perform a pre-scheduled service; and

a performing module configured to perform the pre-scheduled service on the time domain resource and the frequency domain resource indicated by the first configuration information.

32. The terminal device according to claim 31, wherein the pre-scheduled service is a periodic service, the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to perform the pre-scheduled service at each of the time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.

33. The terminal device according to claim 32, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.

34. The terminal device according to claim 31, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform

the pre-scheduled service at each time moment.

35. The terminal device according to any one of claims 31-34, wherein the first configuration information is received by the receiving module through high layer signaling or physical layer signaling.

36. The terminal device according to any one of claims 31-34, wherein the first configuration information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is received by the receiving module through the high layer signaling, and the frequency domain resource indication information is received by the receiving module through the physical layer signaling.

37. A network device, comprising:

a receiving module configured to receive a service request message from a terminal device, the service request message indicating a time moment when the terminal device will perform a pre-scheduled service and a size of data to be transmitted for the pre-scheduled service;

a determining module configured to determine first configuration information according to the service request message, the first configuration information indicating a time domain resource and a frequency domain resource used by the terminal device to perform the pre-scheduled service; and

a sending module configured to send the first configuration information to the terminal device.

38. The network device according to claim 37, wherein the pre-scheduled service is a periodic service, the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to

perform the pre-scheduled service at each of the time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.

39. The network device according to claim 38, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.

40. The network device according to claim 37, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform the pre-scheduled service at each time moment.

41. The network device according to any one of claims 37-40, wherein the first configuration information is sent by the sending module through high layer signaling or physical layer signaling.

42. The network device according to any one of claims 37-40, wherein the first configuration information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is sent by the sending module through the high layer signaling, and the frequency domain resource indication information is sent by the sending module through the physical layer signaling.

43. A terminal device, comprising:

a sending module configured to send a service request message to a network device, the service request message indicating a time moment when the terminal device will perform a pre-scheduled service and a size of data to be transmitted for a pre-scheduled service;

a receiving module configured to receive first configuration information from the network device, the first configuration information indicating a time domain resource and a frequency domain resource used by the terminal device to perform the pre-scheduled service; and

a performing module configured to perform the pre-scheduled service on the time domain resource and the frequency domain resource indicated by the first configuration information.

44. The terminal device according to claim 43, wherein the pre-scheduled service is a periodic service, the first configuration information indicates a transmission period of the pre-scheduled service and a frequency domain resource used by the terminal device to perform the pre-scheduled service at each of the time moments, and the terminal device uses different frequency domain resources to perform the pre-scheduled service at at least two of the time moments.

45. The terminal device according to claim 44, wherein frequency domain resources used by the terminal device to perform the pre-scheduled service are periodically cycled.

46. The terminal device according to claim 43, wherein the first configuration information indicates each time moment for the terminal device to perform the pre-scheduled service and a respective frequency domain resource used by the terminal device to perform the pre-scheduled service at each time moment.

47. The terminal device according to any one of claims 42-46, wherein the first configuration information is received by the receiving module through high layer signaling or physical layer signaling.

48. The terminal device according to any one of claims 42-46, wherein the first

configuration information comprises time domain periodicity indication information and frequency domain resource indication information, the time domain periodicity indication information is received by the receiving module through the high layer signaling, and the frequency domain resource indication information is received by the receiving module through the physical layer signaling.