

CLAIMS

What is claimed is:

1. A method for allocating PDSCH time domain resources, ~~performed by~~^{applied to} a terminal and comprising:

starting buffering or receiving, by the terminal, a PDSCH no earlier than a time domain limiting location of the PDSCH, wherein when SCS of a PDCCH is smaller than SCS of the PDSCH, a time domain location of the PDSCH is not earlier than the time domain limiting location of the PDSCH;

wherein the time domain limiting location of the PDSCH is for limiting a slot offset and/or a start OFDM symbol location of the PDSCH.

2. The method according to claim 1, wherein

the time domain limiting location of the PDSCH is related to one or more of a first configuration value of the SCS of the PDCCH, a second configuration value of the SCS of the PDSCH, processing time of the PDCCH, a time domain length of the PDCCH, a start symbol location of the PDCCH, an end symbol location of the PDCCH, and a reference OFDM symbol.

3. The method according to claim 2, wherein

a relationship between the time domain limiting location of the PDSCH and the one or more of the first configuration value of the SCS of the PDCCH, the second configuration value of the SCS of the PDSCH, the processing time of the PDCCH, the time domain length of the PDCCH, the start symbol location of the PDCCH, the end symbol location of the PDCCH, and the reference OFDM symbol is predefined in a protocol, or is configured by a network device, or is determined by the terminal.

4. The method according to claim 3, wherein the time domain limiting location of the PDSCH is determined in the following manner:

determining a first intermediate value based on the second configuration value and the first configuration value; and

based on a correspondence that is preset in a system and that is between a time domain limiting location and the first intermediate value, determining, as the time domain limiting location of the PDSCH, a time domain limiting location corresponding to the first intermediate value.

5. The method according to claim 3, wherein the time domain limiting location of the PDSCH is determined in the following manner:

determining a second intermediate value based on the second configuration value and the first configuration value; and

based on a correspondence that is reported by the terminal and that is between a time domain limiting location and the second intermediate value, determining, as the time domain limiting location of the PDSCH, a time domain limiting location corresponding to the second intermediate value.

6. The method according to claim 3, wherein the time domain limiting location of the PDSCH is determined in the following manner:

based on a correspondence that is preset in a system or is reported by the terminal and that is between a configuration value and the processing time, determining first processing time corresponding to the first configuration value; and

based on the first configuration value, the second configuration value, and the first processing time, determining the time domain limiting location of the PDSCH.

7. The method according to claim 3, wherein the time domain limiting location of the PDSCH is determined in the following manner:

based on a correspondence that is preset in a system or is reported by the terminal and that is between a configuration value and the processing time, determining second processing time corresponding to the first configuration value; and

based on the first configuration value, the second configuration value, the second processing time, and the start symbol or the end symbol location, determining the time domain limiting location of the PDSCH.

8. The method according to claim 3, wherein the time domain limiting location of the PDSCH is determined in the following manner:

based on a correspondence that is preset in a system or is reported by the terminal and that is between a configuration value and the processing time, determining third processing time corresponding to the first configuration value; and

based on the first configuration value, the second configuration value, the third processing time, and the time domain length of the PDCCH, determining the time domain limiting location of the PDSCH.

9. The method according to claim 1, wherein

the time domain limiting location of the PDSCH is a time domain limiting location that is preset in a system.

10. The method according to claim 1, wherein

the time domain limiting location of the PDSCH is related to a first configuration value of the SCS of the PDCCH, a second configuration value of the SCS of the PDSCH, and a location of the PDCCH that is relative to a boundary of each subunit time, wherein unit time in which the PDCCH is located comprises a preset quantity of subunit time.

11. A terminal for allocating PDSCH time domain resources, comprising: a processor, configured to start buffering or receiving a PDSCH no earlier than a time domain limiting location of the PDSCH, wherein when SCS of a PDCCH is smaller than SCS of the PDSCH, a time domain location of the PDSCH is not earlier than the time domain limiting location of the PDSCH;

wherein the time domain limiting location of the PDSCH is for limiting a slot offset and/or a start OFDM symbol location of the PDSCH.

12. The terminal according to claim 11, wherein

the time domain limiting location of the PDSCH is related to one or more of a first configuration value of SCS of the PDCCH, a second configuration value of SCS of the PDSCH, processing time of the PDCCH, a time domain length of the PDCCH, a start symbol location of the PDCCH, an end symbol location of the PDCCH, and a reference OFDM symbol.

13. The terminal according to claim 11, wherein

a relationship between the time domain limiting location of the PDSCH and the one or more of the first configuration value of the SCS of the PDCCH, the second configuration value of the SCS of the PDSCH, the processing time of the PDCCH, the time domain length of the PDCCH, the start symbol location of the PDCCH, the end symbol location of the PDCCH, and the reference OFDM symbol is predefined in a protocol, or is configured by a network device, or is determined by the terminal.

14. The terminal according to claim 13, wherein the time domain limiting location of the PDSCH is determined in the following manner:

determining a first intermediate value based on the second configuration value and the first configuration value; and

based on a correspondence that is preset in a system and that is between a time domain limiting location and the first intermediate value, determining, as the time domain limiting location of the PDSCH, a time domain limiting location corresponding to the first intermediate value.

15. The terminal according to claim 13, wherein the time domain limiting location of the PDSCH is determined in the following manner:

determining a second intermediate value based on the second configuration value and the first configuration value; and

based on a correspondence that is reported by the terminal and that is between a time domain limiting location and the second intermediate value, determining, as the time domain limiting location of the PDSCH, a time domain limiting location corresponding to the second intermediate value.

16. The terminal according to claim 13, wherein the time domain limiting location of the PDSCH is determined in the following manner:

based on a correspondence that is preset in a system or is reported by the terminal and that is between a configuration value and the processing time, determining first processing time corresponding to the first configuration value; and

based on the first configuration value, the second configuration value, and the first processing time, determining the time domain limiting location of the PDSCH.

17. The terminal according to claim 13, wherein the time domain limiting location of the PDSCH is determined in the following manner:

based on a correspondence that is preset in a system or is reported by the terminal and that is between a configuration value and the processing time, determining second processing time corresponding to the first configuration value; and

based on the first configuration value, the second configuration value, the second processing time, and the start symbol or end symbol location, determining the time domain limiting location of the PDSCH.

18. The terminal according to claim 13, wherein the time domain limiting location of the PDSCH is determined in the following manner:

based on a correspondence that is preset in a system or is reported by the terminal and that is between a configuration value and the processing time, determining third processing time corresponding to the first configuration value; and

based on the first configuration value, the second configuration value, the third processing time, and the time domain length of the PDCCH, determining the time domain limiting location of the PDSCH.

19. The terminal according to claim 11, wherein

the time domain limiting location of the PDSCH is a time domain limiting location that is preset in a system.

20. The terminal according to claim 11, wherein

the time domain limiting location of the PDSCH is related to a first configuration value of the SCS of the PDCCH, a second configuration value of the SCS of the PDSCH, and a location of the PDCCH that is relative to a boundary of each subunit time, wherein unit time in which the PDCCH is located comprises a preset quantity of subunit time.