

WHAT IS CLAIMED IS:

1. A method for selecting a synchronization carrier, comprising:

determining, by a terminal, two or more synchronization carriers from a plurality of carriers, wherein synchronization information is provided on each of the synchronization carriers; and

selecting, by the terminal, a first synchronization carrier from the two or more synchronization carriers based on reference information of the two or more synchronization carriers, wherein the first synchronization carrier is used for providing first synchronization information for each of the plurality of carriers, to enable the plurality of carriers to transmit data synchronously based on the first synchronization information;

~~2. The method according to claim 1, wherein for each of the two or more synchronization carriers, the reference information of the synchronization carriers comprise at least one of the following:~~

a priority of the synchronization information on the synchronization carrier, ~~a priority of the synchronization carrier, or~~ and a Channel Busy Ratio (CBR) of the synchronization carrier;

~~3. The method according to claim 2, wherein selecting, by the terminal, the first synchronization carrier from the two or more synchronization carriers based on the reference information of the two or more synchronization carriers comprises:~~

selecting, by the terminal, based on priorities of synchronization information on each of the synchronization carriers, a synchronization carrier having the synchronization information with a highest priority from the two or more synchronization carriers, to be the first synchronization carrier;

~~4. The method according to claim 3, and wherein the method further comprising~~
comprises:

determining, by the terminal, the priorities of the synchronization information on the two or more synchronization carriers, according to at least configuration information of a base station or pre-configuration information.

~~52. The method according to claim 21, wherein selecting, by the terminal, the first synchronization carrier from the two or more synchronization carriers based on the reference information of the two or more synchronization carriers comprises:~~

selecting, by the terminal, based on priorities of the two or more synchronization carriers, a synchronization carrier having the synchronization information with a highest priority from the two or more synchronization carriers, to be the first synchronization carrier.

~~63. The method according to claim 52, wherein among the two or more synchronization carriers, a synchronization carrier serving as a main carrier has the highest priority.~~

~~74. The method according to claim 52, wherein among the two or more synchronization carriers, a synchronization carrier having a lowest service priority value has the highest priority.~~

~~85. The method according to claim 21, wherein selecting, by the terminal, the first synchronization carrier from the two or more synchronization carriers based on the reference information of the two or more synchronization carriers comprises:~~

selecting, by the terminal, based on Channel Busy Ratios (CBRs) of the two or more synchronization carriers, a synchronization carrier having a lowest CBR from the two or more synchronization carriers, to be the first synchronization carrier.

96. The method according to any one of claims 1 to 85, wherein for each of the two or more synchronization carriers, the synchronization information on the synchronization carrier is one of:

at least one of Global Navigation Satellite System (GNSS)-based time synchronization information or Global Navigation Satellite System (GNSS)-based frequency synchronization information;

at least one of base station based time synchronization information or base station based frequency synchronization information; or

at least one of terminal based time synchronization information or terminal based frequency synchronization information.

107. A device for selecting a synchronization carrier, comprising:

a first determination unit, configured to determine two or more synchronization carriers from a plurality of carriers, wherein synchronization information is provided on each of the synchronization carriers; and

a selection unit, configured to select a first synchronization carrier from the two or more synchronization carriers based on reference information of the two or more synchronization carriers, wherein the first synchronization carrier is used for providing first synchronization information for each of the plurality of carriers, to enable the plurality of carriers to transmit data synchronously based on the first synchronization information;

~~11. The device according to claim 10, wherein for each of the two or more synchronization carriers, the reference information of the synchronization carrier comprises at least one of the following:~~

a priority of the synchronization information on the synchronization carrier, ~~a priority of the synchronization carrier, or~~ and a Channel Busy Ratio (CBR) of the synchronization carrier;

~~12. The device according to claim 11,~~ wherein the selection unit is configured to select, based on priorities of synchronization information on each of the synchronization carriers, a synchronization carrier having the synchronization information with a highest priority from the two or more synchronization carriers to be the first synchronization carrier;

~~13. The device according to claim 12,~~ and wherein the device further comprisingcomprises:

a second determination unit, configured to determine the priorities of the synchronization information on the two or more synchronization carriers, according to at least configuration information of a base station or pre-configuration information.

~~148. The device according to claim 147,~~ wherein the selection unit is configured to select, based on priorities of the two or more synchronization carriers, a synchronization carrier having the synchronization information with a highest priority from the two or more synchronization carriers, to be the first synchronization carrier.

~~159. The device according to claim 148,~~ wherein among the two or more synchronization carriers, a synchronization carrier serving as a main carrier has the highest priority.

~~1610. The device according to claim 148,~~ wherein among the two or more synchronization carriers, a synchronization carrier having a lowest service priority value has the highest priority.

~~17~~11. The device according to claim ~~14~~7, wherein the selection unit is configured to select, based on Channel Busy Ratios (CBRs) of the two or more synchronization carriers, a synchronization carrier having a lowest CBR from the two or more synchronization carriers, to be the first synchronization carrier.

~~18~~12. The device according to any one of claims ~~10-7~~ to ~~17~~11, wherein for each of the two or more synchronization carriers, the synchronization information on the synchronization carrier is one of:

at least one of Global Navigation Satellite System (GNSS)-based time synchronization information or Global Navigation Satellite System (GNSS)-based frequency synchronization information;

at least one of base station based time synchronization information or base station based frequency synchronization information; or

at least one of terminal based time synchronization information or terminal frequency synchronization information.

~~19~~13. A computer storage medium, having computer-executable instructions stored therein, the computer-executable instructions, when executed by a processor, implement the actions of the method according to any one of claims 1 to ~~9~~6.