

CLAIMS

What is claimed is:

1. A random access method, applied to a terminal and comprising:

sending first data in first data content in an i^{th} random access procedure, wherein the first data content is data content buffered in an $(i-1)^{\text{th}}$ random access procedure, the first data content is buffered in an MsgA buffer, at least one of the i^{th} random access procedure and the $(i-1)^{\text{th}}$ random access procedure is a two-step random access procedure, and i is an integer greater than 1;

wherein the sending the first data in the first data content, comprises:

in a case in which the i^{th} random access procedure is a two-step random access procedure, obtaining the first data content from the MsgA buffer and sending the first data content; or,

in a case in which the i^{th} random access procedure is a four-step random access procedure, obtaining the first data content from the MsgA buffer and sending the first data content, and buffering the first data content in an Msg3 buffer.

~~2. The method according to claim 1, wherein the sending first data in first data content comprises:~~

~~in a case in which a size of a data packet sent in the i^{th} random access procedure is the same as a size of a data packet sent in the $(i-1)^{\text{th}}$ random access procedure, obtaining the first data content from a buffer of the first data content buffered in the $(i-1)^{\text{th}}$ random access procedure, and sending the first data content.~~

~~32. The method according to claim 1, wherein the sending first data in first data content comprises:~~

~~in a case in which a size of a data packet sent in the i^{th} random access procedure is different from a size of a data packet sent in the $(i-1)^{\text{th}}$ random access procedure, generating second data content comprising the first data, and sending the second data content.~~

~~43. The method according to claim 32, wherein after the generating second data content comprising the first data, and before the sending the second data content, the method further comprises:~~

~~buffering the second data content.~~

~~54. The method according to claim 43, wherein a buffer of the second data content is the~~

same as or different from a buffer of the first data content.

65. The method according to any one of claims 3-2 to 54, wherein the sending the second data content comprises:

storing the second data content in a HARQ buffer, and sending the second data content by using a HARQ process; or sending the second data content by using a physical layer.

~~7. A random access method, applied to a terminal and comprising:~~

~~in a two step random access procedure, generating third data content in the two step random access procedure, and buffering the third data content.~~

~~8. The method according to claim 7, wherein after the buffering the third data content, the method further comprises:~~

~~storing the third data content in a HARQ buffer, and sending the third data content by using a HARQ process; or sending the third data content by using a layer below a protocol layer corresponding to the third data content.~~

96. A terminal, comprising:

a first sending module, configured to send first data in first data content in an i^{th} random access procedure, wherein the first data content is data content buffered in an $(i-1)^{\text{th}}$ random access procedure, the first data content is buffered in an MsgA buffer, at least one of the i^{th} random access procedure and the $(i-1)^{\text{th}}$ random access procedure is a two-step random access procedure, and i is an integer greater than 1;

wherein the first sending module is specifically configured to:

in a case in which the i^{th} random access procedure is a two-step random access procedure, obtain the first data content from the MsgA buffer and send the first data content; or,

in a case in which the i^{th} random access procedure is a four-step random access procedure, obtain the first data content from the MsgA buffer and send the first data content, and buffer the first data content in an Msg3 buffer.

~~10. The terminal according to claim 9, wherein the first sending module is specifically configured to:~~

~~in a case in which a size of a data packet sent in the i^{th} random access procedure is the same as a size of a data packet sent in the $(i-1)^{\text{th}}$ random access procedure, obtain the first data content from a buffer of the first data content buffered in the $(i-1)^{\text{th}}$ random access procedure,~~

and ~~send the first data content.~~
configured to:

~~117.~~ The terminal according to claim ~~96~~, wherein the first sending module is specifically configured to:

in a case in which a size of a data packet sent in the i^{th} random access procedure is different from a size of a data packet sent in the $(i-1)^{\text{th}}$ random access procedure, generate second data content comprising the first data, and send the second data content.

~~128.~~ The terminal according to claim ~~117~~, further comprising:

a buffer module, configured to buffer the second data content after the second data content comprising the first data is generated and before the second data content is sent.

~~139.~~ The terminal according to claim ~~812~~, wherein a buffer of the second data content is the same as or different from a buffer of the first data content.

~~1410.~~ The terminal according to any one of claims ~~117~~ to ~~139~~, wherein the first sending module is specifically configured to:

in the case in which the size of the data packet sent in the i^{th} random access procedure is different from the size of the data packet sent in the $(i-1)^{\text{th}}$ random access procedure, generate the second data content comprising the first data, store the second data content in a HARQ buffer, and send the second data content by using a HARQ process; or send the second data content by using a physical layer.

~~15.~~ ~~A~~ terminal, ~~comprising:~~
memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the random access method according to any one of claims 1 to ~~65~~ ~~or the steps of the random access method according to claim 7 or 8 are implemented.~~

~~a buffer module, configured to: in a two-step random access procedure, generate third data content in the two-step random access procedure, and buffer the third data content.~~

~~16.~~ The terminal according to claim ~~15~~, further comprising:

~~a second sending module, configured to: after the third data content is buffered, store the third data content in a HARQ buffer, and send the third data content by using a HARQ process; or send the third data content by using a layer below a protocol layer corresponding to the third data content.~~

~~17~~11. A terminal, comprising a processor, a memory, and a computer program stored in the memory and capable of running on the processor, wherein when the computer program is executed by the processor, the steps of the random access method according to any one of claims 1 to 6 ~~or the steps of the random access method according to claim 7 or 8 are implemented.~~

~~18~~12. A computer-readable storage medium, wherein the computer-readable storage medium stores a computer program, and when the computer program is executed by a processor, the ~~steps of the random access method according to any one of claims 1 to 6 or the steps of the random access method according to claim 7 or 8 are implemented.~~