

Claims

1. A wireless communication method for use in an anchor node, the method comprising:
receiving, from a serving node, a context request associated with a wireless terminal and an indication for a small data transmission,
transmitting, to the serving node, a first message comprising configuration information of the small data transmission,
receiving, from the serving node, a second message comprising downlink information of the small data transmission, and
performing the small data transmission.
2. The wireless communication method of claim 1, wherein the first message is transmitted and the second message is received no later than transmitting a response message in response to ~~the a~~ resume request.
3. The wireless communication method of claim 2, wherein the response message comprises ~~one of context information of the wireless terminal or~~ a radio resource control release message.
- ~~4. The wireless communication method of claim 1, wherein the first message is transmitted and the second message is received after transmitting a response message in response to the resume request, wherein the response message comprises a radio resource control release message.~~
- ~~54.~~ 54. The wireless communication method of any of claims 1 to ~~43~~, wherein the configuration information comprises at least one of an uplink address of the small data transmission or a radio link control configuration of the small data transmission.
- ~~65.~~ 65. The wireless communication method of any of claims 1 to ~~54~~, wherein the downlink information comprises a downlink cell group transport network layer address.
- ~~7. The wireless communication method of any of claims 1 to 6, wherein the performing the small data transmission comprises:~~

~~receiving, from a user plane function, downlink data of the wireless terminal, and
transmitting, to the serving node, the downlink data.~~

~~8. The wireless communication method of any of claims 1 to 7, wherein the performing the small
data transmission comprises:~~

~~—receiving, from the serving node, uplink data of the wireless terminal, and
transmitting, to a user plane function, the uplink data.~~

96. A wireless communication method for use in a serving node, the method comprising:
transmitting, to an anchor node, a context request associated with a wireless terminal and an
indication for a small data transmission,
receiving, from the anchor node, a first message comprising configuration information of the
small data transmission,
transmitting, to the anchor node, a second message comprising downlink information of the
small data transmission, and
performing the small data transmission.

107. The wireless communication method of claim 96, wherein the first message is received and the
second message is transmitted no later than receiving a response message in response to ~~the a~~
resume request.

118. The wireless communication method of claim 107, wherein the response message comprises
~~one of context information of the wireless terminal or~~ a radio resource control release message.

~~12. The wireless communication method of claim 9, wherein the first message is received and the
second message is transmitted after receiving a response message in response to the resume
request, wherein the response message comprises a radio resource control release message.~~

139. The wireless communication method of any of claims 9-6 to 128, wherein the configuration
information comprises at least one of an uplink address of the small data transmission or a

radio link control configuration of the small data transmission.

~~1410~~. The wireless communication method of any of claims ~~9-6~~ to ~~139~~, wherein the downlink information comprises a downlink cell group transport network layer address.

~~1511~~. The wireless communication method of any of claims ~~9-6~~ to ~~1410~~, further comprising ~~at least one of:~~

establishing radio link control entities for the small data transmission based on the configuration information, ~~or~~
~~determining an uplink address of the small data transmission based on the configuration information.~~

~~12~~. An anchor node, comprising:

a communication unit, configured to:

receive, from a serving node, a context request associated with a wireless terminal and an indication for a small data transmission,

transmit, to the serving node, a first message comprising configuration information of the small data transmission, and

receive, from the serving node, a second message comprising downlink information of the small data transmission, and

a processor, configured to perform the small data transmission.

~~2013~~. The anchor node of claim ~~1912~~, wherein the processor is further configured to perform the wireless communication method of any one of claims 2 to ~~85~~.

~~2114~~. A serving node, comprising:

a communication unit, configured to:

transmit, to an anchor node, a context request associated with a wireless terminal and an indication for a small data transmission,

receive, from the anchor node, a first message comprising configuration information of

the small data transmission, and
transmit, to the anchor node, a second message comprising downlink information of the
small data transmission, and
a processor, configured to perform the small data transmission.

~~22. The serving node of claim 21, wherein the processor is further configured to perform the
wireless communication method of any one of claims 10 to 18.~~

~~23~~15. A computer program product comprising a computer-readable program medium code stored
thereupon, the code, when executed by a processor, causing the processor to implement a
wireless communication method recited in any one of claims 1 to ~~18~~11.