CLAIMS

~~WHAT IS CLAIMED IS:~~

1. A terminal device~~ of a communication system including at least a base station device and a terminal device~~, ~~wherein the terminal device comprises~~ comprising:

a control unit~~ that performs~~ configured to perform an uplink data transmission setting according to ~~an~~ a radio resource control (RRC) message~~ from an RRC~~; and~~,~~

a transmitting unit~~ that transmits~~ configured to transmit uplink data according to the uplink data transmission setting~~;~~, wherein:

the RRC message includes setting information of a plurality of configured uplink grants,

the setting information includes at least~~ a~~ first and~~ a~~ second configured uplink grants for each of at least one bandwidth part (BWP),

the setting information~~ for the plurality of configured uplink grants~~ further includes setting information~~ of~~ related to a transmission interval~~s~~ of for the first configured uplink grant and a transmission interval of the second configured uplink grant~~s~~,

the control unit~~ sets a plurality of~~ is further configured to set the at least first and second configured uplink grants for each of the at least one BWP according to the setting information~~ of the plurality of configured uplink grants~~ for each of the at least one BWP included in the RRC message,

the control unit, when at least a part of the transmission interval of the first configured uplink grant and at least a part of the transmission interval of the second configured uplink grant overlap each other, is further configured to determine an order according to a priority included in the setting information, and

the transmitting unit, when the at least a part of the~~ respective~~ transmission interval~~s~~ of the first configured uplink grant and the at least a part of the transmission interval of the second configured uplink grant~~s~~ overlap each other,~~ interrupts any one~~ is further configured to, according to the order determined by the control unit, interrupt uplink data transmission of the first~~ and the second~~ configured uplink grant~~s and performs~~ or uplink data transmission of the~~ other~~ second configured uplink grant.

2.~~ A~~ The terminal device according to claim 1, wherein:

the transmitting unit, when the at least a part of the transmission interval of the first configured

uplink grant and the at least a part of the transmission interval of the second configured uplink grant overlap each other, is further configured to interrupt the uplink data transmission of the first configured uplink grant to perform the uplink data transmission of the second configured uplink grant, and

the transmitting unit, after ~~interrupting any one uplink data transmission of the first and the second configured uplink grants, performing uplink data transmission of the other and~~ completing the uplink data transmission of the ~~other~~ second configured uplink grant, ~~resumes~~ is further configured to resume the ~~interrupted~~ uplink data transmission of the first configured uplink grant.

3. ~~A~~ The terminal device according to ~~any one of claims 1 to~~ claim 2, wherein~~:~~

the transmitting unit, after resuming the uplink data transmission of the ~~interrupted~~ first configured uplink grant, ~~performs~~ is further configured to perform the uplink data transmission of the first configured uplink grant until ~~a~~ the transmission interval of the ~~interrupted~~ first configured uplink grant ends.

4. ~~A~~ The terminal device according to ~~any one of claims 1 to~~ claim 2, wherein~~:~~

the transmitting unit, after resuming the uplink data transmission of the ~~interrupted~~ first configured uplink grant, ~~performs~~ is further configured to perform the uplink data transmission of the first configured uplink grant until a setting number of retransmission of the first configured uplink grant is reached.

~~5. A terminal device according to any one of claims 1 to 4, wherein:~~

~~the control unit, when at least a part of the respective transmission intervals of the first and the second configured uplink grants overlap, according to the setting information of the plurality of configured uplink grants included in the RRC message, determines an order of which one to be interrupted; the transmitting unit, according to the order determined by the control unit, interrupts any one uplink data transmission of the first or second configured uplink data transmission.~~

5~~6~~. ~~A~~ The terminal device according to ~~any one of claims 1 to 5~~ claim 1, wherein~~:~~

the control unit ~~determines~~ is further configured to determine the order according to a modulation and coding scheme (MCS) table setting ~~or other parameters~~ included in the setting information ~~of the~~

~~plurality of configured uplink grants~~.

67.~~ A~~ The terminal device according to~~ any one of claims 1 to 5~~ claim 1, wherein~~:~~

the control unit~~ determines~~ is further configured to determine the order according to a setting order of the setting information~~ of the plurality of configured uplink grants~~.

~~8. A terminal device according to any one of claims 1 to 5, wherein:~~

~~the control unit determines the order according to a priority included in the setting information of the plurality of configured uplink grants.~~