CLAIMS

1. A terminal device, comprising:

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

a transmitting unit 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 first and second configured uplink grants for each of at least one bandwidth part (BWP),

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

the control unit 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 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 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, according to the order determined by the control unit, interrupt uplink data transmission of the first configured uplink grant or uplink data transmission of the second configured uplink grant.

2. 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 completing the uplink data transmission of the second configured uplink grant, is further configured to resume the uplink data transmission of the first configured uplink grant.

3. The terminal device according to claim 2, wherein the transmitting unit, after resuming the uplink data transmission of the first configured uplink grant, is further configured to perform the uplink data transmission of the first configured uplink grant until the transmission interval of the first configured uplink grant ends.

4. The terminal device according to claim 2, wherein the transmitting unit, after resuming the uplink data transmission of the first configured uplink grant, 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. The terminal device according to claim 1, wherein the control unit is further configured to determine the order according to a modulation and coding scheme (MCS) table setting included in the setting information.

6. The terminal device according to claim 1, wherein the control unit is further configured to determine the order according to a setting order of the setting information.