

CLAIMS

1. A method of transmitting an uplink signal, by a user equipment (UE), in a wireless communication system, the method comprising:

reporting, to a base station (BS), capability information, wherein the capability information comprises information related to the simultaneous transmission capability for the uplink signal of different transmission time interval (TTI) lengths;

receiving a downlink data channel in at least one serving cell based on the capability information; and

transmitting an uplink control channel for the received downlink data channel,

wherein a cell to carry the uplink control channel is configured to support a short TTI (sTTI)-based operation.

2. The method according to claim 1, wherein the at least one serving cell is a secondary cell (Scell).

3. The method according to claim 1, wherein the cell to carry the uplink control channel is a primary cell of an uplink control channel group to which the at least one serving cell belongs.

4. The method according to claim 1, wherein the uplink control channel is an sTTI-based channel.

5. The method according to claim 1, wherein the capability information is provided per band or per band combination.

6. The method according to claim 1, wherein the uplink control channel and an uplink channel having a different TTI length from a TTI length of the uplink control channel are simultaneously transmitted in one subframe based on the capability information.

7. The method according to claim 1, wherein if there are a plurality of uplink control or data channels overlapped with the uplink control channel in transmission timing, two uplink channels having high priorities are simultaneously transmitted in one subframe according to priorities of the channels.

8. A user equipment (UE) for transmitting an uplink signal in a wireless communication system, the UE comprising:

a receiver and a transmitter; and

a processor configured to control the receiver and the transmitter,

wherein the processor is configured to:

report, to a base station (BS), capability information, wherein the capability information comprises information related to the simultaneous transmission capability for the uplink signal of different transmission time interval (TTI) lengths,

receive a downlink data channel in at least one serving cell based on the capability information, and

transmit an uplink control channel for the received downlink data channel, and

wherein a cell to carry the uplink control channel is configured to support a short TTI (sTTI)-based operation.

9. The UE according to claim 8, wherein the at least one serving cell is a secondary cell (Scell).

10. The UE according to claim 8, wherein the cell to carry the uplink control channel is a primary cell of an uplink control channel group to which the at least one serving cell belongs.

11. The UE according to claim 8, wherein the uplink control channel is an sTTI-based channel.

12. The UE according to claim 8, wherein the capability information is provided per band or per band combination.

13. The UE according to claim 8, wherein the uplink control channel and an uplink channel having a different TTI length from a TTI length of the uplink control channel are simultaneously transmitted in one subframe based on the capability information.

14. The UE according to claim 8, wherein if there are a plurality of uplink control or data channels overlapped with the uplink control channel in transmission timing, the

processor is configured to simultaneously transmit two uplink channels having high priorities in one subframe according to priorities of the channels.