

【CLAIMS】

1. A method for a user equipment (UE) in a wireless communication system, the method comprising:

receiving first information regarding a reference subcarrier spacing (SCS);

receiving downlink control information (DCI) through a UE group common-physical downlink control channel (PDCCH);

obtaining, from the DCI, second information regarding a slot format that is related to the reference SCS; and

based on a first SCS used by the UE being different from the reference SCS, applying the slot format to a plurality of slots of the first SCS, wherein the plurality of slots of the first SCS are related to a slot of the reference SCS.

2. The method according to claim 1, wherein receiving the first information regarding the reference SCS comprises:

receiving the first information regarding the reference SCS via higher layer signaling.

3. The method according to claim 1 or 2, wherein the reference SCS is less than the first SCS, and

wherein a time duration of one slot of the reference SCS is greater than a time duration of each of the plurality of slots of the first SCS.

4. The method according to claim 3, wherein the first SCS is M times the reference SCS,

wherein the plurality of slots of the first SCS comprises M contiguous slots of the first SCS that are related to the slot of the reference SCS.

5. The method according to claim 4, wherein the slot of the reference SCS comprises a first plurality of symbols,

wherein each of the plurality of slots of the first SCS comprises a second plurality of symbols,

wherein M contiguous symbols of the first SCS are related to one symbol of the reference SCS, and

wherein applying the slot format to the plurality of slots of the first SCS comprises, for each of the first plurality of symbols in the slot of the reference SCS:

determining, based on the second information regarding the slot format, that the symbol of the reference SCS is related to one of downlink (D), uplink (U), or flexible (X); and

determining that the M contiguous symbols of the first SCS are related to the one of D, U, or X.

6. The method according to any one of claims 1-5, wherein the second information regarding the slot format indicates at least one slot format combination configured in the UE.

7. The method according to claim 6, wherein the UE is configured with a plurality of frequency bands; and

wherein each of the at least one slot format combination comprises a plurality of slot formats for the plurality of frequency bands.

8. The method according to claim 7,

wherein each of the at least one slot format combination comprises (i) a slot format for a downlink (DL) frequency band, and (ii) a slot format for an uplink (UL) frequency band, or

wherein each of the at least one slot format combination comprises (i) a slot format for a new radio access technology (NR) frequency band, and (ii) a slot format for a long-term evolution (LTE) frequency band.

9. The method according to any one of claims 6-8, wherein the at least one slot formation combination configured in the UE is obtained via higher layer signaling, and

wherein the at least one slot formation combination is a subset of a plurality of slot format combinations that are supported in the wireless communication system.

10. The method according to any one of claims 1-9, wherein applying the slot format, which is related to the reference SCS, to the plurality of slots of the first SCS comprises:

converting the slot format to a first slot format related to the first SCS.

11. A method for a base station (BS) in a wireless communication system, the method comprising:

transmitting, to a user equipment (UE), first information regarding a reference subcarrier spacing (SCS);

obtaining downlink control information (DCI) that comprises second information regarding a slot format that is related to the reference SCS; and

transmitting, through a UE group common-physical downlink control channel (PDCCH), the DCI to a UE group comprising the UE,

wherein, in a state in which the reference SCS is different from a first SCS used by the UE, the BS indicates the slot format to the UE based on the reference SCS.

12. The method according to claim 11, wherein the reference SCS is less than the first SCS, and

wherein a time duration of one slot of the reference SCS is greater than a time duration of one slot of the first SCS.

13. The method according to claim 11,

wherein the slot format indicates, for each symbol of a plurality of symbols included in a slot related to the slot format, whether the symbol is related to downlink (D), uplink (U), or flexible (X); and

wherein the second information regarding the slot format indicates at least one slot formation combination configured in the UE.

14. A user equipment (UE) in a wireless communication system, the UE comprising:

a receiver;

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed, cause the at least one processor to perform operations comprising:

receiving, via the receiver, first information regarding a reference subcarrier spacing (SCS);

receiving, via the receiver, downlink control information (DCI) through a UE group common-physical downlink control channel (PDCCH);

obtaining, from the DCI, second information regarding a slot format that is related to the reference SCS; and

based on a first SCS used by the UE being different from the reference SCS, applying the slot format to a plurality of slots of the first SCS, wherein the plurality of slots of the first SCS are related to a slot of the reference SCS.

15. A base station (BS) in a wireless communication system, the BS comprising:
a transmitter;

at least one processor; and

at least one computer memory operably connectable to the at least one processor and storing instructions that, when executed, cause the at least one processor to perform operations comprising:

transmitting, via the transmitter and to a user equipment (UE), first information regarding a reference subcarrier spacing (SCS);

obtaining downlink control information (DCI) that comprises second information regarding a slot format that is related to the reference SCS; and

transmitting, via the transmitter and through a UE group common-physical downlink control channel (PDCCH), the DCI to a UE group comprising the UE,

wherein, in a state in which the reference SCS is different from a first SCS used by the UE, the at least one processor indicates the slot format to the UE based on the reference SCS.