

CLAIMS

1. A method (1500), by a user equipment, UE, (115), for wireless communication, comprising:
 - receiving (1505) a first control message within a first control region of a first transmission time interval, TTI, that has a first duration;
 - receiving (1510) a second control message within a second control region of a second TTI that has a second duration that is less than the first duration;
 - receiving (1515), in the first control region or the second control region, a time division duplex, TDD, pattern indicator for the second TTI; and
 - determining (1520) a TDD pattern for the second TTI based at least in part on the received TDD pattern indicator by selecting the TDD pattern from among a plurality of predetermined TDD patterns based at least in part on the received TDD pattern indicator, wherein the TDD pattern indicator reconfigures a transmission direction for the second TTI, and wherein selecting the TDD pattern from among a plurality of predetermined TDD patterns comprises:
 - reading a table including a plurality of TDD pattern indicator entries associated with respective TDD patterns; and
 - selecting the TDD pattern for the second TTI that is associated with a TDD pattern indicator entry corresponding to the received TDD pattern indicator.
2. The method (1500) of claim 1, further comprising:
 - identifying a default TDD pattern associated with the second TTI, wherein the determined TDD pattern changes the transmission direction for at least a portion of the default TDD pattern.
3. The method (1500) of claim 1, further comprising:
 - identifying that the determined TDD pattern applies to a predetermined number of TTIs, including the second TTI that has the second duration.
4. The method (1500) of claim 1, wherein the TDD pattern indicator is included in at least one of a first grant of resources received in the first control message, or a second grant of resources received in the second control message, or a

common search space in the first control region of the first TTI, or any combination thereof.

5. A method (1600), by a base station (105), for wireless communication, comprising:

- transmitting (1605) a first control message within a first control region of a first transmission time interval, TTI, that has a first duration;
- transmitting (1610) a second control message within a second control region of a second TTI that has a second duration that is less than the first duration;
- determining (1615) a time division duplex, TDD, pattern for the second TTI, wherein a TDD pattern indicator reconfigures a transmission direction for the second TTI; and
- transmitting (1620), in the first control region or the second control region, the TDD pattern indicator identifying the determined TDD pattern for the second TTI, wherein the TDD pattern indicator is associated with a TDD pattern indicator entry in a table including a plurality of TDD pattern indicator entries associated with respective TDD patterns.

6. The method (1600) of claim 5, further comprising:

- identifying a default TDD pattern associated with the second TTI, wherein the determined TDD pattern changes the transmission direction for at least a portion of the default TDD pattern.

7. The method (1600) of claim 5, further comprising:

- identifying a transmission direction associated with the first TTI during at least a portion of the second duration; and
- determining the TDD pattern for the second TTI based at least in part on the identified transmission direction.

8. The method (1600) of claim 5, further comprising:

- identifying a transmission direction associated with a time interval preceding the second TTI; and

determining the TDD pattern for the second TTI based at least in part on the identified transmission direction associated with the time interval preceding the second TTI.

9. A user equipment, UE, (115, 805) for wireless communication, comprising:

means for receiving (810) a first control message within a first control region of a first transmission time interval, TTI, that has a first duration;

means for receiving (810) a second control message within a second control region of a second TTI that has a second duration that is less than the first duration;

means for receiving (810), in the first control region or the second control region, a time division duplex, TDD, pattern indicator for the second TTI; and

means for determining (815) a TDD pattern for the second TTI based at least in part on the received TDD pattern indicator by means for selecting the TDD pattern from among a plurality of predetermined TDD patterns based at least in part on the received TDD pattern indicator, wherein the TDD pattern indicator reconfigures a transmission direction for the second TTI, and wherein the means for selecting the TDD pattern from among a plurality of predetermined TDD patterns comprises:

means for reading a table including a plurality of TDD pattern indicator entries associated with respective TDD patterns; and

means for selecting the TDD pattern for the second TTI that is associated with a TDD pattern indicator entry corresponding to the received TDD pattern indicator.

10. The apparatus (805) of claim 9, further comprising:

means for identifying a default TDD pattern associated with the second TTI, wherein the determined TDD pattern changes the transmission direction for at least a portion of the default TDD pattern.

11. The apparatus (805) of claim 10, further comprising:

means for identifying that the determined TDD pattern applies to a predetermined number of TTIs, including the second TTI that has the second duration.

12. A base station (105, 1205) for wireless communication, comprising:

means for transmitting (1220) a first control message within a first control region of a first transmission time interval, TTI, that has a first duration;

means for transmitting (1220) a second control message within a second control region of a second TTI that has a second duration that is less than the first duration;

means for determining (1215) a time division duplex, TDD, pattern for the second TTI, wherein a TDD pattern indicator reconfigures a transmission direction for the second TTI; and

means for transmitting (1220), in the first control region or the second control region, the TDD pattern indicator identifying the determined TDD pattern for the second TTI, wherein the TDD pattern indicator is associated with a TDD pattern indicator entry in a table including a plurality of TDD pattern indicator entries associated with respective TDD patterns.

13. The apparatus (1205) of claim 12, further comprising:

means for identifying a default TDD pattern associated with the second TTI, wherein the determined TDD pattern changes the transmission direction for at least a portion of the default TDD pattern.

14. The apparatus (1205) of claim 12, further comprising:

means for identifying a transmission direction associated with the first TTI during at least a portion of the second duration; and

means for determining the TDD pattern for the second TTI based at least in part on the identified transmission direction.

15. A computer program product comprising instructions which, when the program is executed by a computer, cause the computer to carry out the method according to one of the claims 1 – 4 or 5 – 8, when executed thereon.