CLAIMS ~~(CLEAN)~~

1. A method, in a base station (103), for determining at least one control timing configuration number, said at least one control timing configuration number providing a subframe timing setting for configuring control timing to and from a user equipment (101) in a multiple cell communications network, the method comprising:

determining (10) at least one control timing configuration number for a plurality of aggregated cells of the multiple cell communications network, each aggregated cell being associated with a Time Division Duplex, TDD, uplink-downlink configuration number, wherein at least two TDD uplink-downlink configuration numbers of the plurality of aggregated cells are not equal, and said plurality of aggregated cells being associated with the user equipment (101), wherein the determining (10) is based on a subframe timing compatibility of said TDD uplink-downlink configuration numbers of each aggregated cell; and

assigning (18) said at least one control timing configuration number to the user equipment (101).

2. The method of claim 1, wherein the at least one control timing configuration number is indicative of a downlink Hybrid-Automatic Repeat Request, HARQ, control timing configuration for establishing downlink HARQ A/N timings across the plurality of aggregated cells.

3. The method of any of claims 1-2, wherein the at least one control timing configuration number is indicative of an uplink control timing configuration number for establishing uplink scheduling grant and/or acknowledgement/negative-acknowledgement, A/N, timings across the plurality of aggregated cells.

4. The method of any of claims 1-3, wherein the at least one control timing configuration number is equal to one of said TDD uplink-downlink configuration numbers of the plurality of aggregated cells.

5. The method of any of claims 1-3, wherein the at least one control timing configuration number is not equal to any of the TDD uplink-downlink configuration numbers of said plurality of aggregated cells.

6. The method of any of claims 1-5, wherein the at least one control timing configuration number is determined such that control data is transmitted, to and from the user equipment and the network, in a non-conflicting manner.

7. The method of any of claims 1-6, wherein the determining (10) further comprises determining (11) the at least one control timing configuration number based on the TDD uplink-downlink configuration numbers of said plurality of aggregated cells.

8. The method of claim 7, wherein the determining (10) further comprises determining (12) the at least one control timing configuration number based on a subframe timing compatibility ordering.

9. The method of claim 8, wherein the determining (12) further comprises arranging (14) the subframe timing compatibility ordering such that TDD uplink-downlink configurations on a higher level of the ordering comprise uplink subframes that are a superset of all uplink subframes from TDD uplink-downlink configurations on a lower level of the ordering.

10. The method of any of claims 8-9, wherein the determining (12) further comprises arranging (16) the subframe timing compatibility ordering such that TDD uplink-downlink configurations on a lower level of the ordering comprise downlink subframes that are a superset of all downlink subframes from TDD uplink-downlink configurations on a higher level of the ordering.

11. The method of any of claims 1-10, wherein the assigning (18) further comprises communicating to the user equipment said at least one control timing configuration number via radio resource control, RRC, signalling.

12. The method of any of claims 1-11, wherein the assigning (18) further comprises assigning (20), in the presence of conflicting subframes, a forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.

13. The method of any of claims 1-12, wherein the assigning (18) further comprises assigning (22), in the presence of conflicting subframes, a cross component carrier forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.

14. A base station (103) for determining at least one control timing configuration number, said at least one control timing configuration number providing a subframe timing setting for configuring control timing to and from a user equipment (101) in a multiple cell communications network, the base station comprising:

a determination unit (308) configured to determine at least one control timing configuration number for a plurality of aggregated cells of the multiple cell communications network, each aggregated cell being associated with a Time Division Duplex, TDD, uplink-downlink configuration number, wherein at least two TDD uplink-downlink configuration numbers of the plurality of aggregated cells are not equal, and said plurality of aggregated cells being associated with the user equipment (101), wherein the at least one control timing configuration number is determined based on a subframe timing compatibility of said TDD uplink-downlink configuration numbers of each aggregated cell; and

an assignment unit (310) configured to assign said at least one control timing configuration number to the user equipment (101).

15. The base station of claim 14, wherein the at least one control timing configuration number is indicative of a downlink Hybrid-Automatic Repeat Request, HARQ, control timing configuration for establishing downlink HARQ A/N timings across the plurality of aggregated cells.

16. The base station of any of claims 14-15, wherein the at least one control timing configuration number is indicative of an uplink control timing configuration number for establishing uplink scheduling grant and/or acknowledgement/negative-acknowledgement, A/N, timings across the plurality of aggregated cells.

17. The base station of any of claims 14-16, wherein the at least one control timing configuration number is equal to one of said TDD uplink-downlink configuration numbers of the plurality of aggregated cells.

18. The base station of any of claims 14-16, wherein the at least one control timing configuration number is not equal to any of the TDD uplink-downlink configuration numbers of said plurality of aggregated cells.

19. The base station of any of claims 14-18, wherein the at least one control timing configuration number is determined such that control data is transmitted, to and from the user equipment and the network, in a non-conflicting manner.

20. The base station of any of claims 14-19, wherein the determination unit (308) is further configured to determine the at least one control timing configuration number based on the TDD uplink-downlink configuration numbers of said plurality of aggregated cells.

21. The base station of claim 20, wherein the determination unit (308) is further configured to determine the at least one control timing configuration number based on a subframe timing compatibility ordering.

22. The base station of claim 20, wherein the subframe timing compatibility ordering is arranged such TDD uplink-downlink configurations on a higher level of the ordering comprise uplink subframes that are a superset of all uplink subframes from TDD uplink-downlink configurations on a lower level of the ordering.

23. The base station of any of claims 21-22, wherein the subframe timing compatibility ordering is arranged such TDD uplink-downlink configurations on a lower level of the ordering comprise downlink subframes that are a superset of all downlink subframes from TDD uplink-downlink configurations on a higher level of the ordering.

24. The base station of any of claims 14-23, wherein the assignment unit (310) is further configured to communicate to the user equipment said at least one control timing configuration number via radio resource control, RRC, signalling.

25. The base station of any of claims 14-24, wherein the assignment unit (310) is further configured to assign, in the presence of conflicting subframes, a forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.

26. The base station of any of claims 14-25, wherein the assignment unit (310) is further configured to assign, in the presence of conflicting subframes, a cross component carrier forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.

27. A method, in a user equipment **(101)**, for determining at least one control timing configuration number, said at least one control timing configuration number providing a subframe timing setting for a configuration of control timing for a user equipment **(101)** in a multiple cell communications network, the method comprising:

determining **(30)** at least one control timing configuration number for a plurality of aggregated cells of the multiple cell communications network, each aggregated cell being associated with a Timing Division Duplex, TDD, uplink-downlink configuration number, wherein at least two TDD uplink-downlink configuration numbers of the plurality of aggregated cells are not equal, and said plurality of aggregated cells being associated with the user equipment **(101)**, wherein the determining **(20)** is based on a subframe timing compatibility of said TDD uplink-downlink configuration numbers of each aggregated cell; and

implementing **(33)** control timing based on the at least one control timing configuration number.

28. The method of claim 27, wherein the at least one control timing configuration number is indicative of a downlink Hybrid-Automatic Repeat Request, HARQ, control timing configuration for establishing downlink HARQ A/N timings across the plurality of aggregated cells.

29. The method of any of claims 27-28, wherein the at least one control timing configuration number is indicative of an uplink control timing configuration number for establishing uplink scheduling grant and/or acknowledgement/negative-acknowledgement, A/N, timings across the plurality of aggregated cells.

30. The method of any of claims 27-29, wherein the at least one control timing configuration number is equal to one of said TDD uplink-downlink configuration numbers of the plurality of aggregated cells.

31. The method of any of claims 27-29, wherein the at least one control timing configuration number is not equal to any of the TDD uplink-downlink configuration numbers of said plurality of aggregated cells.

32. The method of any of claims 27-31, wherein the implementing **(33)** further comprising scheduling **(37)** control data, based on that at least one control timing configuration

number, such that the control data is transmitted, to and from the user equipment and the network, in a non-conflicting manner.

33. The method of any of claims 27-32, wherein the determining (30) further comprises receiving (31) the at least one control timing configuration from a base station (103).

34. The method of claim 33, wherein the at least one control timing configuration is received via radio resource control, RRC, signalling.

35. The method of any of claims 27-34, wherein the determining (30) further comprises determining (32) the at least one control timing configuration number such that control data is transmitted to and from the user equipment and the network in a non-conflicting manner.

36. The method of any of claims 27-35, wherein the implementing (33) further comprises scheduling (34), in the presence of conflicting subframes, a forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.

37 The method of any of claims 27-36, wherein the implementing (33) further comprises scheduling (36), in the presence of conflicting subframes, a cross component carrier forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.

38. A user equipment (101), for determining at least one control timing configuration number, said at least one control timing configuration number providing a subframe timing setting for a configuration of control timing for a user equipment in a multiple cell communications network, the user equipment (101) comprising:

a determining unit (402) configured to determine at least one control timing configuration number for a plurality of aggregated cells of the multiple cell communications network, each aggregated cell being associated with a Time Division Duplex, TDD, uplink-downlink configuration number, wherein at least two TDD uplink-downlink configuration numbers of the plurality of aggregated cells are not equal, and said plurality of aggregated cells being associated with the user equipment (101), wherein the at least one control timing configuration number is determined based on a subframe timing compatibility of said TDD uplink-downlink configuration numbers of each aggregated cell; and

an implementation unit (408) configured to implement control timing based on the at least one control timing configuration number.

39. The user equipment of claim 38, wherein the at least one control timing configuration number is indicative of a downlink Hybrid-Automatic Repeat Request, HARQ, control timing configuration for establishing downlink HARQ A/N timings across the plurality of aggregated cells.

40. The user equipment of any of claims 38-39, wherein the at least one control timing configuration number is indicative of an uplink control timing configuration number for establishing uplink scheduling grant and/or acknowledgement/negative-acknowledgement, A/N, timings across the plurality of aggregated cells.

41. The user equipment of any of claims 38-40, wherein the at least one control timing configuration number is equal to one of said TDD uplink-downlink configuration numbers of the plurality of aggregated cells.

42. The user equipment of any of claims 38-40, wherein the at least one control timing configuration number is not equal to any of the TDD uplink-downlink configuration numbers of said plurality of aggregated cells.

43. The user equipment of any of claims 38-42, wherein the implementation unit (408) is further configured to schedule control data, based on the at least one control timing configuration number, such that control data is transmitted, to and from the user equipment and the network, in a non-conflicting manner.

44. The user equipment of any of claims 38-43, wherein the determining unit (402) is further configured to receive, from the base station (103), the at least one control timing configuration number.

45. The user equipment of claim 44, wherein the at least one control timing configuration number is received via radio resource control, RRC, signalling.

46. The user equipment of any of claims 38-45, wherein the implementation unit (408) is configured to implement the at least one control timing configuration number such that

control data is transmitted to and from the user equipment and the network in a non-conflicting manner.

47. The user equipment of any of claims 38-46, wherein the implementation unit (408) is further configured to schedule, in the presence of conflicting subframes, a forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.

48. The user equipment of any of claims 38-47, wherein the implementation unit (408) is further configured to schedule, in the presence of conflicting subframes, a cross component carrier forward-subframe downlink scheduling timing with respect to a physical downlink control channel, PDCCH.