CLAIMS

WHAT IS CLAIMED IS:

1. A method for wireless communications, comprising:

obtaining notification of a multi-carrier assignment for a user equipment (UE) in a wireless network;

employing a data processor to execute rules for managing UE interaction with at least one carrier of the multi-carrier assignment, the rules comprising:

analyzing a wireless condition pertaining to the UE or the wireless network;

generating a command for the UE pertaining to the at least one carrier based on the wireless condition; and

employing a communication interface to convey the command to the UE *via* lower layer signaling.

2. The method of claim 1, further comprising employing the command to instruct the UE to activate or deactivate the at least one carrier.

3. The method of claim 2, further comprising:

obtaining a set of uplink feedback channels employed by the UE in response to activation or deactivation of the at least one carrier; and

employing a decoding scheme for the set of uplink feedback channels to decode channel quality indicator (CQI) or packet acknowledgment (ACK) and negative ACK (NACK) data transmitted by the UE over the set of uplink feedback channels.

4. The method of claim 1, further comprising employing a physical layer or layer two signaling protocol, at least in part, to convey the command.

5. The method of claim 1, further comprising employing a high speed shared control channel (HS-SCCH) command for the UE command and an HS-SCCH signal to convey the UE command to the UE.

6. The method of claim 1, further comprising reserving a pair of HS-SCCH orders for each of at least one non-anchor carrier allocated to the UE for activation and deactivation, respectively, of the at least one non-anchor carrier.

7. The method of claim 6, wherein deactivation of the at least one non-anchor carrier comprises at least one of:

instructing the UE to ignore signals of the at least one non-anchor carrier other than a pilot signal or HS-SCCH signal; or

instructing the UE to ignore all signals of the non-anchor carrier.

8. The method of claim 1, further comprising obtaining a response from the UE indicating receipt or execution of the UE command by the UE.

9. The method of claim 1, further comprising employing at least one anchor or non-anchor carrier assigned to the UE to convey the UE command.

10. The method of claim 1, further comprising employing a discontinuous transmission (DTX) or discontinuous reception (DRX) protocol in conveying the UE command.

11. The method of claim 1, wherein the multi-carrier assignment is implemented by a layer three signaling protocol command at a radio network controller (RNC).

12. The method of claim 1, wherein the wireless condition comprises a measure of network loading.

13. The method of claim 12, wherein the network loading measure is determined by total power or code usage on a downlink, rise over thermal (RoT) indicator on an uplink, or by UE throughput, buffer status or quality of service performance or requirement on either the uplink or the downlink.

14. The method of claim 1, wherein the wireless condition comprises a measure of channel quality or throughput for the UE.

15. The method of claim 14, wherein the channel quality is determined by CQI on a downlink or scheduling information (SI) on an uplink.

16. An apparatus for wireless communications, comprising:

a data processor that executes a set of modules configured for managing UE interaction with a non-anchor wireless carrier, the set of modules comprising:

an interface module that obtains a notification of multi-carrier assignment for a UE served by the apparatus;

an analysis module that measures a wireless condition pertaining to a UE;

a control module that generates a management order for the UE pertaining to the non-anchor wireless carrier; and

a communication interface that conveys the management order to the UE on a lower layer signal.

17. The apparatus of claim 16, wherein the control module employs the management command to instruct the UE to activate or deactivate the non-anchor wireless carrier.

18. The apparatus of claim 17, wherein:

the interface module obtains a set of uplink feedback channels employed by the UE in response to activation or deactivation of the non-anchor wireless carrier; and

the data processor employs a decoding scheme for the set of uplink feedback channels to decode CQI or ACK and NACK data transmitted by the UE over the set of uplink feedback channels.

19. The apparatus of claim 16, wherein the management order is an explicit command or an implicit command.

20. The apparatus of claim 18, wherein at least one of:

the explicit command comprises a physical layer HS-SCCH order; or

the implicit command comprises a DTX or DRX message generated at least in part *via* a layer two signaling protocol.

21. The apparatus of claim 16, further comprising a physical protocol module that generates a pair of HS-SCCH orders for the non-anchor carrier for activation and deactivation of the non-anchor carrier.

22. The apparatus of claim 21, wherein the physical protocol module at least one of:
instructs the UE to ignore signals of the non-anchor carrier; or
instructs the UE to monitor only a pilot signal or HS-SCCH signal of the non-anchor carrier.

23. The apparatus of claim 16, further comprising a feedback module that obtains a response from the UE indicating receipt or execution of the management order.

24. The apparatus of claim 16, wherein the communication interface employs an anchor carrier utilized by the UE to convey the management order.

25. The apparatus of claim 16, wherein the multi-carrier assignment is implemented on layer three protocols by a wireless network RNC serving the UE.

26. The apparatus of claim 16, further comprising a loading module that establishes the network condition as a function of network loading.

27. The apparatus of claim 26, wherein the loading module measures downlink loading based on power or code usage or uplink loading based on measured RoT, or employs UE throughput, buffer state or quality of service (QoS) performance or requirement on either the downlink or uplink.

28. The apparatus of claim 16, further comprising a channel analysis module that establishes the network condition as a function of channel quality or throughput for the UE.

29. The apparatus of claim 28, wherein the channel analysis module employs CQI or SI to establish the network condition.

30. The apparatus of claim 16, further comprising a performance module that obtains a power consumption goal of the UE, wherein the power consumption goal is employed by the control module in generating the management order.

31. An apparatus for wireless communications, comprising:

means for obtaining notification of a multi-carrier assignment for a UE in a wireless network;

means for employing a data processor to execute rules for managing UE interaction with at least one carrier of the multi-carrier assignment, the rules comprising:

analyzing a wireless condition pertaining to the UE or the wireless network;

generating a UE command pertaining to the at least one carrier based on the wireless condition; and

means for conveying the command to the UE *via* lower layer signaling.

32. At least one processor configured for wireless communications, comprising:

a first module for obtaining notification of a multi-carrier assignment for a UE in a wireless network;

a second module for analyzing a wireless condition pertaining to the UE or the wireless network;

a third module for generating a UE command pertaining to the at least one carrier based on the wireless condition; and

a fourth module for conveying the command to the UE *via* lower layer signaling.

33. A computer program product, comprising:

a computer-readable medium, comprising:

a first set of codes for causing a computer to obtain notification of a multi-carrier assignment for a UE in a wireless network;

a second set of codes for causing the computer to analyze a wireless condition pertaining to the UE or the wireless network;

a third set of codes for causing the computer to generate a UE command pertaining to the at least one carrier based on the wireless condition; and

a fourth set of codes for causing the computer to convey the command to the UE *via* lower layer signaling.

34. A method for participating in wireless communications, comprising:

employing a wireless communication interface to obtain a multi-carrier assignment from a wireless network component;

employing the communication interface to obtain a physical layer or layer two signaling protocol message; and

employing a data processor to extract a command pertaining to a non-anchor carrier of the multi-carrier assignment from the message.

35. The method of claim 34, further comprising employing the data processor to decode a layer three signaling protocol message to obtain the multi-carrier assignment.

36. The method of claim 34, further comprising activating or deactivating the non-anchor carrier based on the command.

37. The method of claim 36, further comprising at least one of:

adjusting a set of uplink feedback channels employed in submitting channel feedback data based on the activation or deactivation of the non-anchor carrier, and submitting the adjusted feedback channels to a serving network access point; or

changing a CQI or ACK and NACK encoding format upon activation or deactivation of the non-anchor carrier, and submitting the changed encoding format to the serving network access point.

38. The method of claim 36, wherein deactivating the non-anchor carrier further comprises at least one of:

ignoring signaling on the non-anchor carrier;

terminating processing on the non-anchor carrier; or

ignoring non-pilot or non-shared control channel signaling on the non-anchor carrier.

39. The method of claim 34, further comprising activating or deactivating channel feedback for the non-anchor carrier based on the command.

40. The method of claim 34, further comprising:

initiating a timer upon receiving the command; and

obeying the command for a duration of the timer.

41. The method of claim 40, further comprising at least one of:

obeying a multi-carrier command if such command is received prior to expiration of the timer, and resetting the timer;

returning to a default state upon expiration of the timer; or

returning to a previous state upon expiration of the timer.

42. The method of claim 34, further comprising decoding an HS-SCCH order to extract the command from the message.

43. The method of claim 34, wherein the message comprises signaling activity or lack of such activity occurring on a DTX or DRX cycle of a wireless channel.

44. The method of claim 43, further comprising inferring an order to activate or deactivate the non-anchor carrier based on the signaling activity or lack of such activity.

45. The method of claim 34, further comprising submitting CQI or SI data pertaining to a single or multi-carrier channel to a wireless network access point.

46. The method of claim 45, wherein the submission is in response to at least one of:

a request for channel data from the wireless network access point; or

a periodic channel submission defined by wireless network protocol.

47. The method of claim 34, further comprising submitting a performance, throughput or power preservation goal to a wireless network to facilitate network-based multi-carrier management based at least in part on the goal.

48. The method of claim 34, further comprising obeying, denying or modifying the command based on a performance, throughput or power consumption goal.

49. An apparatus for participating in wireless communications, comprising:

a wireless communication interface that obtains a multi-carrier assignment on one layer of a wireless signaling protocol, and a command pertaining to the multi-carrier assignment on a different layer of the wireless signaling protocol; and

a data processor for processing the command and executing a set of modules for implementing the command.

50. The apparatus of claim 49, wherein the one layer of the wireless signaling protocol is a layer three signaling protocol.

51. The apparatus of claim 49, wherein the different layer of the wireless signaling protocol is a layer two or physical layer signaling protocol.

52. The apparatus of claim 49, further comprising an activation module that initiates or deactivates a non-anchor carrier specified by the multi-carrier assignment.

53. The apparatus of claim 52, wherein the activation module at least one of:

adjusts uplink feedback channels employed in submitting channel feedback data in response to the activation or deactivation of the non-anchor carrier, and submits the adjusted feedback channels to a serving base station; or

changes a CQI or ACK and NACK encoding format in response to activation or deactivation of the non-anchor carrier, and submits the changed encoding format to the serving base station.

54. The apparatus of claim 52, wherein the activation module at least one of:

ignores signaling on the non-anchor carrier to deactivate such carrier; or

ignores non-pilot or non-shared control channel signaling on the non-anchor charier to deactivate such carrier.

55. The apparatus of claim 49, further comprising a feedback module that activates or deactivates channel reporting for the non-anchor carrier based on the command.

56. The apparatus of claim 49, further comprising a timing module that sets a counter upon processing of the command by the data processor, wherein the apparatus obeys the command for a duration established by the counter.

57. The apparatus of claim 56, wherein the data processor at least one of:

obeys a subsequent multi-carrier command if such subsequent command is received within the duration;

returns the apparatus to a default single carrier state if no command is received within the duration; or

returns the apparatus to a prior state if no command is received within the duration.

58. The apparatus of claim 49, further comprising an analysis module that decodes the command from the different layer of the wireless signaling protocol.

59. The apparatus of claim 58, wherein the analysis module decodes the command as at least one of:

a shared control channel order; or

a DRX or DTX logic order.

60. The apparatus of claim 59, wherein the data processor infers a command from the DRX or DTX logic order based on signaling activity on a DRX or DTX channel.

61. The apparatus of claim 49, further comprising a reporting module that submits CQI or SI data pertaining to a single or multi-carrier channel to a wireless network access point serving the apparatus.

62. The apparatus of claim 61, wherein the reporting module at least one of:

submits the data in response to a request from the access point; or

submits the response periodically when reporting is initiated by the wireless network.

63. The apparatus of claim 49, further comprising a management module that maintains an operation goal of the apparatus pertinent to the multi-carrier assignment.

64. The apparatus of claim 63, wherein the management module at least one of:

submits the operation goal to a serving network access point to facilitate network management of multi-carrier activity for the apparatus based on the goal; or

obeys, denies or modifies the command based on the goal to facilitate UE-moderated management of multi-carrier activity.

65. An apparatus for participating in wireless communications, comprising:

means for employing a wireless communication interface to obtain a multi-carrier assignment from a wireless network component;

means for employing the communication interface to obtain a physical layer or layer two signaling protocol message; and

means for employing a data processor to extract a command pertaining to a non-anchor carrier of the multi-carrier assignment from the message.

66. At least one processor configured for participating in wireless communications, comprising:

a first module for employing a wireless communication interface to obtain a multi-carrier assignment from a wireless network component;

a second module for employing the communication interface to obtain a physical layer or layer two signaling protocol message; and

a third module for employing a data processor to extract a command pertaining to a non-anchor carrier of the multi-carrier assignment from the message.

67. A computer program product, comprising:

a computer-readable medium, comprising:

a first set of codes for causing a computer to employ a wireless communication interface to obtain a multi-carrier assignment from a wireless network component;

a second set of codes for causing the computer to employ the communication interface to obtain a physical layer or layer two signaling protocol message; and

a third set of codes for causing the computer to employ a data processor to extract a command pertaining to a non-anchor carrier of the multi-carrier assignment from the message.

CLAIMS

1. A method for wireless communications, comprising:

obtaining notification of a multi-carrier assignment for a user equipment (UE) in a wireless network;

employing a data processor to execute rules for managing UE interaction with at least one carrier of the multi-carrier assignment, the rules comprising:

analyzing a wireless condition pertaining to the UE or the wireless network;

generating a command to instruct the UE to activate or deactivate the at least one carrier based on the wireless condition; and

employing a communication interface to convey the command to the UE at least in part via physical layer signaling or layer two signaling.

2. The method of claim **1**, further comprising employing the command to instruct the UE to activate or deactivate the at least one carrier.

3. The method of claim **2**, further comprising:

obtaining a set of uplink feedback channels employed by the UE in response to activation or deactivation of the at least one carrier; and

employing a decoding scheme for the set of uplink feedback channels to decode channel quality indicator (CQI) or packet acknowledgment (ACK) and negative ACK (NACK) data transmitted by the UE over the set of uplink feedback channels.

4. The method of claim **1**, further comprising employing a high speed shared control channel (HS-SCCH) command for the UE command and an HS-SCCH signal to convey the UE command to the UE.

5. The method of claim **1**, further comprising obtaining a response from the UE indicating receipt or execution of the UE command by the UE.

6. The method of claim **1**, further comprising employing at least one anchor or non-anchor carrier assigned to the UE to convey the UE command.

7. The method of claim **1**, further comprising employing a discontinuous transmission (DTX) or discontinuous reception (DRX) protocol in conveying the UE command.

8. The method of claim **1**, wherein the multi-carrier assignment is implemented by a layer three signaling protocol command at a radio network controller (RNC).

9. The method of claim **1**, wherein the wireless condition comprises a measure of network loading.

10. The method of claim **9**, wherein the network loading measure is determined by total power or code usage on a downlink, rise over thermal (RoT) indicator on an uplink, or by UE throughput, buffer status or quality of service performance or requirement on either the uplink or the downlink.

11. The method of claim **1**, wherein the wireless condition comprises a measure of channel quality or throughput for the UE.

12. The method of claim **11**, wherein the channel quality is determined by CQI on a downlink or scheduling information (SI) on an uplink.

13. A method for wireless communications, comprising:

obtaining notification of a multi-carrier assignment for a user equipment (UE) in a wireless network;

employing a data processor to execute rules for managing UE interaction with at least one carrier of the multi-carrier assignment, the rules comprising:

analyzing a wireless condition pertaining to the UE or the wireless network;

generating a command for the UE pertaining to the at least one carrier based on the wireless condition; and

employing a communication interface to convey the command to the UE via lower layer signaling; and

reserving a pair of HS-SCCH orders for each of at least one non-anchor carrier allocated to the UE for activation and deactivation, respectively, of the at least one non-anchor carrier.

14. The method of claim **13**, wherein deactivation of the at least one non-anchor carrier comprises at least one of:

instructing the UE to ignore signals of the at least one non-anchor carrier other than a pilot signal or HS-SCCH signal; or

instructing the UE to ignore all signals of the non-anchor carrier.

15. An apparatus for wireless communications, comprising:

a data processor that executes a set of modules configured for managing user equipment (UE) interaction with a non-anchor wireless carrier, the set of modules comprising:

an interface module that obtains a notification of multi-carrier assignment for a UE served by the apparatus;

an analysis module that measures a wireless condition pertaining to a UE;

a control module that generates a management order to

instruct the UE to activate or deactivate the non-anchor wireless carrier; and

a communication interface that conveys the management order to the UE at least in part on physical layer signaling or layer two signaling.

16. The apparatus of claim **15**, wherein the control module employs the management order to instruct the UE to activate or deactivate the non-anchor wireless carrier.

17. The apparatus of claim **16**, wherein:

the interface module obtains a set of uplink feedback channels employed by the UE in response to activation or deactivation of the non-anchor wireless carrier; and

the data processor employs a decoding scheme for the set of uplink feedback channels to decode channel quality indicator (CQI) or acknowledgment (ACK) and negative ACK (NACK) data transmitted by the UE over the set of uplink feedback channels.

18. The apparatus of claim **17**, wherein at least one of:

the explicit command comprises a physical layer HS-SCCH order; or

the implicit command comprises a DTX or DRX message generated at least in part via a layer two signaling protocol.

19. The apparatus of claim **15**, wherein the management order is an explicit command or an implicit command.

20. The apparatus of claim **15**, further comprising a physical protocol module that generates a pair of HS-SCCH orders for the non-anchor carrier for activation and deactivation of the non-anchor carrier.

21. The apparatus of claim **20**, wherein the physical protocol module at least one of:

instructs the UE to ignore signals of the non-anchor carrier; or

instructs the UE to monitor only a pilot signal or HS-SCCH signal of the non-anchor carrier.

22. The apparatus of claim **15**, further comprising a feedback module that obtains a response from the UE indicating receipt or execution of the management order.

23. The apparatus of claim **15**, wherein the communication interface employs an anchor carrier utilized by the UE to convey the management order.

24. The apparatus of claim **15**, wherein the multi-carrier assignment is implemented on layer three protocols by a wireless network RNC serving the UE.

25. The apparatus of claim **15**, further comprising a performance module that obtains a power consumption goal of the UE, wherein the power consumption goal is employed by the control module in generating the management order.

26. An apparatus for wireless communications, comprising:

a data processor that executes a set of modules configured for managing user equipment (UE) interaction with a non-anchor wireless carrier, the set of modules comprising:

an interface module that obtains a notification of multi-carrier assignment for a UE served by the apparatus;

an analysis module that measures a wireless condition pertaining to a UE;

a control module that generates a management order for the UE pertaining to the non-anchor wireless carrier;

a communication interface that conveys the management order to the UE on a lower layer signal; and

a loading module that establishes the wireless condition as a function of network loading.

27. The apparatus of claim **26**, wherein the loading module measures downlink loading based on power or code usage or uplink loading based on measured RoT, or employs UE throughput, buffer state or quality of service (QoS) performance or requirement on either the downlink or uplink.

28. An apparatus for wireless communications, comprising:

a data processor that executes a set of modules configured for managing user equipment (UE) interaction with a non-anchor wireless carrier, the set of modules comprising:

an interface module that obtains a notification of multi-carrier assignment for a UE served by the apparatus;

an analysis module that measures a wireless condition pertaining to a UE;

a control module that generates a management order for the UE pertaining to the non-anchor wireless carrier;

a communication interface that conveys the management order to the UE on a lower layer signal; and

a channel analysis module that establishes the wireless condition as a function of channel quality or throughput for the UE.

29. The apparatus of claim **28**, wherein the channel analysis module employs CQI or SI to establish the network condition.

30. An apparatus for wireless communications, comprising:

means for obtaining notification of a multi-carrier assignment for a user equipment (UE) in a wireless network;

means for employing a data processor to execute rules for managing UE interaction with at least one carrier of the multi-carrier assignment, the rules comprising:

analyzing a wireless condition pertaining to the UE or the wireless network;

generating a command to instruct the UE to activate or deactivate the at least one carrier based on the wireless condition; and

means for conveying the command to the UE at least in part via physical layer signaling or layer two signaling.

31. At least one processor configured for wireless communications, comprising:

a first module for obtaining notification of a multi-carrier assignment for a user equipment (UE) in a wireless network;

a second module for analyzing a wireless condition pertaining to the UE or the wireless network;

a third module for generating a command to instruct the UE to activate or deactivate the at least one carrier based on the wireless condition; and

a fourth module for conveying the command to the UE at least in part via physical layer signaling or layer two signaling.

32. A non-transitory computer-readable medium, comprising:

a first set of codes for causing a computer to obtain notification of a multi-carrier assignment for a user equipment (UE) in a wireless network;

a second set of codes for causing the computer to analyze a wireless condition pertaining to the UE or the wireless network;

a third set of codes for causing the computer to generate a UE command to activate or deactivate the at least one carrier based on the wireless condition; and

a fourth set of codes for causing the computer to convey the command to the UE at least in part via physical layer signaling or layer two signaling.

33. A method for participating in wireless communications, comprising:

employing a wireless communication interface to obtain a multi-carrier assignment from a wireless network component;

employing the communication interface to obtain a physical layer or layer two signaling protocol message; and

employing a data processor to extract a command to activate or deactivate a non-anchor carrier of the multi-carrier assignment from the message;

initiating a timer upon receiving the command; and

obeying the command for a duration of the timer.

34. The method of claim **33**, further comprising employing the data processor to decode a layer three signaling protocol message to obtain the multi-carrier assignment.

35. The method of claim **33**, further comprising activating or deactivating the non-anchor carrier based on the command.

36. The method of claim **35**, further comprising at least one of:

adjusting a set of uplink feedback channels employed in submitting channel feedback data based on the activation or deactivation of the non-anchor carrier, and submitting the adjusted feedback channels to a serving network access point; or

changing a channel quality indicator (CQI) or acknowledgment (ACK) and negative ACK (NACK) encoding format upon activation or deactivation of the non-anchor carrier, and submitting the changed encoding format to the serving network access point.

37. The method of claim **35**, wherein deactivating the non-anchor carrier further comprises at least one of:

ignoring signaling on the non-anchor carrier;

terminating processing on the non-anchor carrier; or

ignoring non-pilot or non-shared control channel signaling on the non-anchor carrier.

38. The method of claim **33**, further comprising activating or deactivating channel feedback for the non-anchor carrier based on the command.

39. The method of claim **33**, further comprising at least one of:

obeying a multi-carrier command if such command is received prior to expiration of the timer, and resetting the timer;

returning to a default state upon expiration of the timer; or

returning to a previous state upon expiration of the timer.

40. The method of claim **33**, further comprising decoding an HS-SCCH order to extract the command from the message.

41. The method of claim **33**, wherein the message comprises signaling activity or lack of such activity occurring on a DTX or DRX cycle of a wireless channel.

42. The method of claim **41**, further comprising inferring an order to activate or deactivate the non-anchor carrier based on the signaling activity or lack of such activity.

43. The method of claim **33**, further comprising submitting CQI or SI data pertaining to a single or multi-carrier channel to a wireless network access point.

44. The method of claim **43**, wherein the submission is in response to at least one of:

a request for channel data from the wireless network access point; or

a periodic channel submission defined by wireless network protocol.

45. The method of claim **33**, further comprising submitting a performance, throughput or power preservation goal to a wireless network to facilitate network-based multi-carrier management based at least in part on the goal.

46. The method of claim **33**, further comprising obeying, denying or modifying the command based on a performance, throughput or power consumption goal.

47. An apparatus for participating in wireless communications, comprising:

a wireless communication interface that obtains a multi-carrier assignment from a wireless network component, and that obtains a physical layer or layer two signaling protocol message;

a data processor to extract a command to activate or deactivate a non-anchor carrier of the multi-carrier assignment from the message; and

a timing module that sets a counter upon processing of the command by the data processor, wherein the apparatus obeys the command for a duration established by the counter.

48. The apparatus of claim **47**, wherein the one layer of the wireless signaling protocol is a layer three signaling protocol.

49. The apparatus of claim **47**, further comprising an activation module that initiates or deactivates a non-anchor carrier specified by the multi-carrier assignment.

50. The apparatus of claim **49**, wherein the activation module at least one of:

adjusts uplink feedback channels employed in submitting channel feedback data in response to the activation or deactivation of the non-anchor carrier, and submits the adjusted feedback channels to a serving base station; or

changes a channel quality indicator (CQI) or acknowledgment (ACK) and negative ACK (NACK) encoding format in response to activation or deactivation of the non-anchor carrier, and submits the changed encoding format to the serving base station.

51. The apparatus of claim **49**, wherein the activation module at least one of:

ignores signaling on the non-anchor carrier to deactivate such carrier; or

ignores non-pilot or non-shared control channel signaling on the non-anchor charier to deactivate such carrier.

52. The apparatus of claim **47**, further comprising a feedback module that activates or deactivates channel reporting for the non-anchor carrier based on the command.

53. The apparatus of claim **47**, further comprising a reporting module that submits CQI or SI data pertaining to a single or multi-carrier channel to a wireless network access point serving the apparatus.

54. The apparatus of claim **53**, wherein the reporting module at least one of:

submits the data in response to a request from the access point; or

submits the response periodically when reporting is initiated by the wireless network.

55. The apparatus of claim **47**, further comprising a management module that maintains an operation goal of the apparatus pertinent to the multi-carrier assignment.

56. The apparatus of claim **55**, wherein the management module at least one of:

submits the operation goal to a serving network access point to facilitate network management of multi-carrier activity for the apparatus based on the goal; or

obeys, denies or modifies the command based on the goal to facilitate UE-moderated management of multi-carrier activity.

57. An apparatus for participating in wireless communications, comprising:

a wireless communication interface that obtains a multi-carrier assignment on one layer of a wireless signaling protocol, and a command pertaining to the multi-carrier assignment on a different layer of the wireless signaling protocol;

a data processor for processing the command and executing a set of modules for implementing the command; and

a timing module that sets a counter upon processing of the command by the data processor, wherein the apparatus obeys the command for a duration established by the counter.

58. The apparatus of claim **57**, wherein the data processor at least one of:

obeys a subsequent multi-carrier command if such subsequent command is received within the duration;

returns the apparatus to a default single carrier state if no command is received within the duration; or

returns the apparatus to a prior state if no command is received within the duration.

59. An apparatus for participating in wireless communications, comprising:

a wireless communication interface that obtains a multi-carrier assignment on one layer of a wireless signaling protocol, and a command pertaining to the multi-carrier assignment on a different layer of the wireless signaling protocol;

a data processor for processing the command and executing a set of modules for implementing the command; and

an analysis module that decodes the command from the different layer of the wireless signaling protocol.

60. The apparatus of claim **59**, wherein the analysis module decodes the command as at least one of:

a shared control channel order; or

a DRX or DTX logic order.

61. The apparatus of claim **60**, wherein the data processor infers a command from the DRX or DTX logic order based on signaling activity on a DRX or DTX channel.

62. An apparatus for participating in wireless communications, comprising:

means for employing a wireless communication interface to obtain a multi-carrier assignment from a wireless network component;

means for employing the communication interface to obtain a physical layer or layer two signaling protocol message;

means for employing a data processor to extract a command to activate or deactivate a non-anchor carrier of the multi-carrier assignment from the message; and

means for employing a timing module to set a counter upon processing of the command by the data processor, wherein the apparatus obeys the command for a duration established by the counter.

63. At least one processor configured for participating in wireless communications, comprising: a first module for employing a wireless communication interface to obtain a multi-carrier assignment from a wireless network component; a second module for employing the communication interface to obtain a physical layer or layer two signaling protocol message; a third module for employing a data processor to extract a command to activate or deactivate a non-anchor carrier of the multi-carrier assignment from the message; and a fourth module for setting a counter upon processing of the command by the data processor, wherein the data processor obeys the command for a duration established by the counter.

64. A non-transitory computer-readable medium, comprising:

a first set of codes for causing a computer to employ a wireless communication interface to obtain a multi-carrier assignment from a wireless network component;

a second set of codes for causing the computer to employ the communication interface to obtain a physical layer or layer two signaling protocol message; a third set of codes for causing the computer to employ a data processor to extract a command to activate or deactivate a non-anchor carrier of the multi-carrier assignment from the message and a fourth set of codes for causing the computer to employ a timing module to set a counter upon processing of the command by the data processor, wherein the data processor obeys the command for a duration established by the counter.