

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

1-27. (Canceled)

28. (New) A method of coexistence management comprising:
receiving sensing information from a plurality of wireless networks; and
providing a ranked list of available channels to one of the plurality of wireless networks based at least on the sensing information received from the plurality of wireless networks.

29. (New) The method of claim 28, further comprising ranking the available channels based on channel quality to provide the ranked list.

30. (New) The method of claim 29, wherein the ranking the available channels based on channel quality includes ranking the available channels based on an interference level between the plurality of wireless networks.

31. (New) The method of claim 28, wherein each of the wireless networks is one of a cellular network or a wireless local area network (WLAN).

32. (New) The method of claim 28, wherein the receiving the sensing information from the plurality of wireless networks includes receiving the sensing information from a plurality of base stations, wherein each of the plurality of base

stations is in a corresponding wireless network from among the plurality of wireless networks.

33. (New) The method of claim 32, wherein at least one of the plurality of base stations is configured to sense a wireless spectrum to provide the sensing information.

34. (New) The method of claim 33, wherein the wireless spectrum is a license exempt (LE) spectrum.

35. (New) The method of claim 32, wherein each of the plurality of base stations is selected from a group consisting of an enhanced Node-B (eNB), a home eNB (HeNB) and an access point (AP).

36. (New) A method of spectrum coordination comprising:
receiving a request from a requesting wireless network, wherein the requesting wireless network is from among a plurality of wireless networks;
obtaining, from a database, information about channels that are available for the requesting wireless network; and
providing, to the requesting wireless network, a ranked list of the channels that are available for the requesting wireless network based at least on the obtained information about the channels that are available for the requesting wireless network.

37. (New) The method of claim 36, further comprising providing channel usage information to the requesting wireless network with the ranked list, the

channel usage information including information of other wireless networks from among the plurality of wireless networks that may cause coexistence issues, based at least on the obtained information about the channels that are available for the requesting wireless network.

38. (New) The method of claim 36, further comprising ranking the available channels based on channel quality to provide the ranked list.

39. (New) The method of claim 38, wherein the ranking the available channels based on channel quality includes ranking the available channels based on an interference level between the plurality of wireless networks.

40. (New) The method of claim 36, wherein the request is a spectrum allocation request.

41. (New) The method of claim 36, further comprising receiving selected usage parameters for use in future coexistence decisions.

42. (New) The method of claim 41, wherein the selected usage parameters include a selected channel.

43. (New) The method of claim 36, wherein the channels that are available for the requesting wireless network are white space channels.

44. (New) The method of claim 36, wherein the receiving the request from the requesting wireless network includes receiving the request from a base station in the requesting wireless network.

45. (New) The method of claim 44, wherein the base station is selected from the group consisting of an enhanced Node-B (eNB), a home eNB (HeNB) and an access point (AP).

46. (New) The method of claim 36, wherein the requesting wireless network is one of a cellular network or a wireless local area network (WLAN).

47. (New) A method of spectrum coordination comprising:
receiving spectrum usage data from a plurality of wireless networks;
obtaining, from a database, information about available channels; and
providing a ranked list of the available channels to one of the plurality of wireless networks based at least on the spectrum usage data received from the plurality of wireless networks and the information about the available channels obtained from the database.

48. (New) The method of claim 47, further comprising ranking the available channels based on expected performance to provide the ranked list.

49. (New) The method of claim 48, wherein the ranking the available channels based on the expected performance includes ranking the available channels based on an interference level between the plurality of wireless networks.

50. (New) The method of claim 47, wherein each of the plurality of wireless networks is one of a cellular network or a wireless local area network (WLAN).

51. (New) The method of claim 47, wherein the receiving the spectrum usage data from the plurality of wireless networks includes receiving the spectrum usage data from a plurality of base stations, wherein each of the plurality of base stations is in a corresponding wireless network from among the plurality of wireless networks.

52. (New) The method of claim 51, wherein at least one of the plurality of base stations is configured to sense a wireless spectrum to provide the sensing information.

53. (New) The method of claim 52, wherein the wireless spectrum is a license exempt (LE) spectrum.

54. (New) The method of claim 51, wherein each of the plurality of base stations is selected from the group consisting of an enhanced Node-B (eNB), a home eNB (HeNB) and an access point (AP).