CLAIMS

What is claimed is:

1. A method, comprising:

providing one or more parameters to an access point related to one or more disparate communication technologies potentially interfered by resource allocations from the access point; and

receiving a resource allocation from the access point in response to the one or more parameters.

2. The method of claim 1, wherein the providing the one or more parameters includes providing a type of each of the one or more disparate communication technologies.

3. The method of claim 2, further comprising determining presence of a co-located radio that communicates using at least one of the one or more disparate communication technologies, wherein the providing the type of each of the one or more disparate communication technologies is based at least in part on the determining presence of the co-located radio.

4. The method of claim 2, further comprising receiving signals from one or more devices that communicate using at least one of the one or more disparate communication technologies, wherein the providing the type of each of the one or more disparate communication technologies is based at least in part on the receiving signals from the one or more devices.

5. The method of claim 1, wherein the providing the one or more parameters includes providing an indication of a set of resources defined for utilization with the one or more disparate communication technologies.

6. The method of claim 5, further comprising receiving the indication of the set of resources from one or more devices that communicate using the one or more disparate communication technologies.

7. The method of claim 5, further comprising generating the indication of the set of resources based at least in part on one or more signals received from one or more devices communicating using the one or more disparate communication technologies.

8. The method of claim 7, further comprising generating the indication of the set of resources based at least in part on resources utilized by a co-located radio that communicates using the one or more disparate communication technologies.

9. The method of claim 1, wherein the providing the one or more parameters includes providing a measurement gap during which devices using the one or more disparate communication technologies transmit signals.

10. The method of claim 1, wherein the receiving the resource allocation includes receiving a resource allocation that comprises a narrow band allocation over resources that potentially interfere the one or more disparate communication technologies.

11. The method of claim 10, wherein the providing the one or more parameters includes reporting a low power headroom to the access point during periods of time when devices of the one or more disparate communication technologies are communicating.

12. The method of claim 1, wherein the providing the one or more parameters includes providing one or more parameters related to a global positioning system (GPS) communication technology where resource allocations from the access point potentially interfere GPS communication technology at a spectral regrowth or second harmonic order.

13. The method of claim 1, wherein the providing the one or more parameters includes providing one or more parameters related to a MediaFLO communication technology where resource allocations from the access point potentially interfere MediaFLO communications.

14. A wireless communications apparatus, comprising:

at least one processor configured to:

transmit one or more parameters to an access point indicating resources related to a disparate communication technology to avoid assigning during uplink resource allocations; and

receive a resource allocation from the access point related to transmitting the one or more parameters; and

a memory coupled to the at least one processor.

15. The wireless communications apparatus of claim 14, wherein the one or more parameters include an indication of the disparate communication technology.

16. An apparatus, comprising:

means for communicating one or more parameters to an access point related to avoiding interference with a disparate communication technology during resource allocation; and

means for receiving a resource allocation from the access point in response to the one or more parameters.

17. The apparatus of claim 16, wherein the one or more parameters includes an indication of the disparate communication technology.

18. The apparatus of claim 17, further comprising means for determining presence of a co-located radio that communicates using the disparate communication technology, wherein the indication is based on determining the presence of the co-located radio.

19. The apparatus of claim 17, further comprising means for receiving one or more signals from one or more devices communicating using the disparate communication technology, wherein the indication is based on receiving the one or more signals.

20. The apparatus of claim 16, wherein the one or more parameters includes a set of resources utilized by devices communicating using the disparate communication technology.

21. The apparatus of claim 20, further comprising means for receiving an indication of the set of resources from one or more devices that communicate using the disparate communication technology.

22. A computer program product, comprising:

a computer-readable medium comprising:

code for causing at least one computer to provide one or more parameters to an access point related to one or more disparate communication technologies potentially interfered by resource allocations from the access point; and

code for causing the at least one computer to receive a resource allocation from the access point in response to the one or more parameters.

23. The computer program product of claim 22, wherein the one or more parameters includes a type of each of the one or more disparate communication technologies.

24. An apparatus, comprising:

a parameter signaling component that communicates one or more parameters to an access point related to avoiding interference with a disparate communication technology during resource allocation; and

an assignment receiving component that obtains a resource allocation from the access point in response to the one or more parameters.

25. The apparatus of claim 24, wherein the one or more parameters includes an indication of the disparate communication technology.

26. The apparatus of claim 25, further comprising an interference detecting component that determines presence of a co-located radio that communicates using the disparate communication technology, wherein the indication is based on determining the presence of the co-located radio.

27. A method, comprising:

determining one or more resources that are utilized for communicating in one or more disparate communication technologies; and

generating a resource allocation for a mobile device that mitigates interference with the one or more resources.

28. The method of claim 27, wherein the generating the resource allocation includes selecting a set of resources for the resource allocation other than the one or more resources.

29. The method of claim 27, wherein the generating the resource allocation includes selecting a set of resources over one or more frequency bands utilized in the one or more resources and over time periods different from those in the one or more resources.

30. The method of claim 27, wherein the generating the resource allocation includes generating a narrow frequency band allocation over a subset of frequency bands directly interfering the one or more resources or interfering over a spectral regrowth or harmonic order product.

31. The method of claim 27, wherein the determining the one or more resources includes receiving a request, from the mobile device, to avoid resources used for communicating in the one or more disparate communication technologies when generating the resource allocation from the mobile device.

32. The method of claim 27, wherein the determining the one or more resources includes receiving an indication, from the mobile device, of the one or more resources that are utilized for communicating in the one or more disparate communication technologies.

33. The method of claim 27, wherein the determining the one or more resources includes receiving a measurement gap from the mobile device during which communications in the one or more disparate communication technologies occur.

34. The method of claim 27, wherein the determining the one or more resources includes receiving a low headroom report from the mobile device during a time period related to the one or more resources, and generating the resource allocation includes allocating a narrow band of frequency resources related to the one or more resources to the mobile device during the time period.

35. The method of claim 27, wherein one of the one or more disparate communication technologies is a global positioning system (GPS) technology, MediaFLO technology, or digital video broadcasting – handheld (DVB-H) technology.

36. A wireless communications apparatus, comprising:

at least one processor configured to:

receive one or more parameters regarding resources utilized for communicating in one or more disparate communication technologies;

generate a resource allocation for a mobile device based at least in part on the one or more parameters; and

a memory coupled to the at least one processor.

37. The wireless communications apparatus of claim 36, wherein the at least one processor generates the resource allocation to include a set of resources different from the resources utilized for communicating in the one or more disparate communication technologies.

38. The wireless communications apparatus of claim 36, wherein the at least one processor generates the resource allocation to include one or more frequency bands in the resources utilized for communicating in the one or more disparate communication technologies and over disparate time periods than those utilized by the one or more disparate communication technologies.

39. An apparatus, comprising:

means for receiving one or more parameters regarding resources utilized for communicating by one or more disparate communication technologies; and

means for generating a resource allocation for a mobile device based at least in part on the one or more parameters.

40. The apparatus of claim 39, wherein the resource allocation includes a set of resources other than the resources utilized for communicating by the one or more disparate communication technologies.

41. The apparatus of claim 39, wherein the resource allocation includes a set of resources over frequency bands used in the resources utilized for communicating by the one or more disparate communication technologies and over time periods different from those in the resources utilized for communicating by the one or more disparate communication technologies.

42. The apparatus of claim 39, wherein the resource allocation is a narrow frequency band allocation over a subset of frequency bands in the resources that potentially interfere with communications in the one or more disparate communication technologies.

43. The apparatus of claim 39, wherein the one or more parameters are received by the mobile device and include a request to avoid resources utilized by the one or more disparate communication technologies.

44. A computer program product, comprising:

a computer-readable medium comprising:

code for causing at least one computer to determine one or more resources that are utilized for communicating in one or more disparate communication technologies; and

code for causing the at least one computer to generate a resource allocation for a mobile device that mitigates interference with the one or more resources.

45. The computer program product of claim 44, wherein the resource allocation includes a set of resources other than the one or more resources.

46. The computer program product of claim 44, wherein the resource allocation includes a set of resources over one or more frequency bands utilized in the one or more resources and over time periods different from those in the one or more resources.

47. An apparatus, comprising:

a parameter signal receiving component that obtains a signal from a mobile device comprising one or more parameters regarding resources utilized for communicating by one or more disparate communication technologies; and

a resource assigning component that generates a resource allocation for the mobile device based at least in part on the one or more parameters.

48. The apparatus of claim 47, wherein the resource allocation includes a set of resources other than the resources utilized for communicating by the one or more disparate communication technologies.

49. The apparatus of claim 47, wherein the resource allocation includes a set of resources over frequency bands used in the resources utilized for communicating by the one or more disparate communication technologies and over time periods different from those in the resources utilized for communicating by the one or more disparate communication technologies.

CLAIMS

1. A method, comprising:

providing, by a mobile device, to an access point, one or more parameters related to one or more communication technologies not supported by the access point and potentially interfered with by resource allocations from the access point; and

receiving a resource allocation from the access point in response to the one or more parameters.

2. The method of claim **1**, wherein the providing the one or more parameters includes providing a type of each of the one or more communication technologies.

3. The method of claim **2**, further comprising determining presence of a co-located radio that communicates using at least one of the one or more communication technologies, wherein the providing the type of each of the one or more communication technologies is based at least in part on the determining presence of the co-located radio.

4. The method of claim **2**, further comprising receiving signals from one or more devices that communicate using at least one of the one or more communication technologies, wherein the providing the type of each of the one or more communication technologies is based at least in part on the receiving signals from the one or more devices.

5. The method of claim **1**, wherein the providing the one or more parameters includes providing an indication of a set of resources defined for utilization with the one or more communication technologies.

6. The method of claim **5**, further comprising receiving the indication of the set of resources from one or more devices that communicate using the one or more communication technologies.

7. The method of claim **5**, further comprising generating the indication of the set of resources based at least in part on one or more signals received from one or more devices communicating using the one or more communication technologies.

8. The method of claim **7**, further comprising generating the indication of the set of resources based at least in part on resources utilized by a co-located radio that communicates using the one or more communication technologies.

9. The method of claim **1**, wherein the providing the one or more parameters includes providing a measurement gap during which devices using the one or more communication technologies transmit signals.

10. The method of claim **1**, wherein the receiving the resource allocation includes receiving a resource allocation that comprises a narrow band allocation over resources that potentially interfere with the one or more communication technologies.

11. The method of claim **10**, wherein the providing the one or more parameters includes reporting a low power headroom to the access point during periods of time when devices of the one or more communication technologies are communicating.

12. The method of claim **1**, wherein the providing the one or more parameters includes providing one or more parameters related to a global positioning system (GPS) communication technology where resource allocations from the access point potentially interfere with GPS communication technology at a spectral regrowth or second harmonic order.

13. The method of claim **1**, wherein the providing the one or more parameters includes providing one or more parameters related to a MediaFLO communication technology where resource allocations from the access point potentially interfere with MediaFLO communications.

14. The method of claim **1**, wherein the providing the one or more parameters includes providing one or more parameters related to a digital video broadcasting-handheld (DVB-H) communication technology where resource allocations from the access point potentially interfere with DVB-H communications.

15. A wireless communications apparatus, comprising:

at least one processor configured to:

transmit, by a mobile device, to an access point, one or more parameters indicating resources related to a communication technology not supported by the access point to avoid assigning during uplink resource allocations; and

receive a resource allocation from the access point related to transmitting the one or more parameters; and

a memory coupled to the at least one processor.

16. The wireless communications apparatus of claim **15**, wherein the one or more parameters include an indication of the communication technology.

17. An apparatus, comprising:

means for communicating, by a mobile device, to an access point, one or more parameters related to avoiding interference with a communication technology not supported by the access point during resource allocation; and

means for receiving a resource allocation from the access point in response to the one or more parameters.

18. The apparatus of claim **17**, wherein the one or more parameters includes an indication of the communication technology.

19. The apparatus of claim **18**, further comprising means for determining presence of a co-located radio that communicates using the communication technology, wherein the indication is based on determining the presence of the co-located radio.

20. The apparatus of claim **18**, further comprising means for receiving one or more signals from one or more devices communicating using the communication technology, wherein the indication is based on receiving the one or more signals.

21. The apparatus of claim **17**, wherein the one or more parameters includes a set of resources utilized by devices communicating using the communication technology.

22. The apparatus of claim **21**, further comprising means for receiving an indication of the set of resources from one or more devices that communicate using the communication technology.

23. A computer program product, comprising:

a non-transitory computer-readable medium comprising:

code for causing at least one computer to provide, by a

mobile device, to an access point, one or more parameters related to one or more communication technologies not supported by the access point and potentially interfered with by resource allocations from the access point; and

code for causing the at least one computer to receive a resource allocation from the access point in response to the one or more parameters.

24. The computer program product of claim **23**, wherein the one or more parameters includes a type of each of the one or more communication technologies.

25. A hardware apparatus, comprising:

a parameter signaling component that communicates, by a mobile device, to an access point, one or more parameters related to avoiding interference with a communication technology not supported by the access point during resource allocation; and

an assignment receiving component that obtains a resource allocation from the access point in response to the one or more parameters.

26. The apparatus of claim **25**, wherein the one or more parameters includes an indication of the communication technology.

27. The apparatus of claim **26**, further comprising an interference detecting component that determines presence of a co-located radio that communicates using the communication technology, wherein the indication is based on determining the presence of the co-located radio.

28. A method, comprising:

receiving, at an access point, from a mobile device, one or more parameters regarding one or more resources used for communicating in one or more communication technologies not supported by the access point; and

generating a resource allocation for the mobile device based at least in part on the one or more parameters.

29. The method of claim **28**, wherein the generating the resource allocation includes selecting a set of resources for the resource allocation other than the one or more resources.

30. The method of claim **28**, wherein the generating the resource allocation includes selecting a set of resources over one or more frequency bands utilized in the one or more resources and over time periods different from those in the one or more resources.

31. The method of claim **28**, wherein the generating the resource allocation includes generating a narrow frequency band allocation over a subset of frequency bands directly interfering with the one or more resources or interfering over a spectral regrowth or harmonic order product.

32. The method of claim **28**, wherein the received one or more parameters comprise an indication, from the mobile device, of the one or more resources that are utilized for communicating in the one or more communication technologies.

33. The method of claim **28**, wherein the received one or more parameters comprise a measurement gap from the mobile device during which communications in the one or more communication technologies occur.

34. The method of claim **28**, wherein the received one or more parameters comprise a low headroom report from the mobile device during a time period related to the one or more resources, and generating the resource allocation includes allocating a narrow band of frequency resources related to the one or more resources to the mobile device during the time period.

35. The method of claim **28**, wherein one of the one or more communication technologies is a global positioning system (GPS) technology, MediaFLO technology, or digital video broadcasting-handheld (DVB-H) technology.

36. A wireless communications apparatus, comprising:

at least one processor configured to:

receive one or more parameters, from a mobile device, regarding resources utilized for communicating in one or more communication technologies not supported by the apparatus;

generate a resource allocation for the mobile device based at least in part on the one or more parameters; and

a memory coupled to the at least one processor.

37. The wireless communications apparatus of claim **36**, wherein the at least one processor generates the resource allocation to include a set of resources different from the resources utilized for communicating in the one or more communication technologies.

38. The wireless communications apparatus of claim **36**, wherein the at least one processor generates the resource allocation to include one or more frequency bands in the resources utilized for communicating in the one or more communication technologies and over disparate time periods than those utilized by the one or more communication technologies.

39. An apparatus, comprising:

means for receiving, from a mobile device, one or more parameters regarding resources utilized for communicating by one or more communication technologies not supported by the apparatus; and

means for generating a resource allocation for the mobile device based at least in part on the one or more parameters.

40. The apparatus of claim **39**, wherein the resource allocation includes a set of resources other than the resources utilized for communicating by the one or more communication technologies.

41. The apparatus of claim **39**, wherein the resource allocation includes a set of resources over frequency bands used in the resources utilized for communicating by the one or more communication technologies and over time periods different from those in the resources utilized for communicating by the one or more communication technologies.

42. The apparatus of claim **39**, wherein the resource allocation is a narrow frequency band allocation over a subset of frequency bands in the resources that potentially interfere with communications in the one or more communication technologies.

43. The apparatus of claim **39**, wherein the one or more parameters are received by the mobile device and include a request to avoid resources utilized by the one or more communication technologies.

44. A computer program product, comprising:

a non-transitory computer-readable medium comprising:

code for causing at least one computer, in an access point, to receive a request, from a mobile device, to avoid one or more resources used for communicating in one or more communication technologies;

code for causing the at least one computer, in an access point, to determine the one or more resources that are utilized for communicating in the one or more communication technologies not supported by the access point based on the request; and

code for causing the at least one computer to generate a resource allocation for the mobile device that mitigates interference with the one or more resources.

45. The computer program product of claim **44**, wherein the resource allocation includes a set of resources other than the one or more resources.

46. The computer program product of claim **44**, wherein the resource allocation includes a set of resources over one or more frequency bands utilized in the one or more resources and over time periods different from those in the one or more resources.

47. A hardware apparatus, comprising:

a parameter signal receiving component that obtains a signal from a mobile device comprising one or more parameters regarding resources utilized for communicating by one or more communication technologies not supported by the apparatus; and

a resource assigning component that generates a resource allocation for the mobile device based at least in part on the one or more parameters.

48. The apparatus of claim **47**, wherein the resource allocation includes a set of resources other than the resources utilized for communicating by the one or more communication technologies.

49. The apparatus of claim **47**, wherein the resource allocation includes a set of resources over frequency bands used in the resources utilized for communicating by the one or more communication technologies and over time periods different from those in the resources utilized for communicating by the one or more communication technologies.