CLAIMS

1. A method of wireless communication, comprising:

transmitting, by a first wireless communication device to a second wireless communication device, a plurality of reports, each report indicating an allowable transmission power level at the first wireless communication device satisfying a maximum permissible exposure (MPE) parameter;

receiving, by the first wireless communication device from the second wireless communication device, a first configuration based on an MPE profile associated with the first wireless communication device in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

transmitting, by the first wireless communication device to the second wireless communication device, a first communication signal over a first beam based on the first configuration.

2. The method of claim 1, wherein the transmitting the first communication signal includes transmitting the first communication signal over the first beam based at least on one of a beam index, a transmission power parameter, or a resource allocation in the first configuration.

3. The method of claim 1, further comprising:

determining, by the first wireless communication device, the allowable transmission power levels over a training time period,

wherein the MPE profile includes the statistical information associated with at least the allowable transmission power levels over the training time period.

4. The method of claim 3, further comprising:

receiving, by the first wireless communication device from the second wireless communication device, a report configuration indicating the training time period.

5. The method of claim 1, further comprising:

determining, by the first wireless communication device, whether the transmitting the first communication signal satisfies an instantaneous MPE parameter; and

transmitting, by the first wireless communication device to the second wireless communication device, an instantaneous MPE violation report when determining that the transmitting the first communication signal does not satisfy the instantaneous MPE parameter.

6. The method of claim 5, further comprising:

receiving, by the first wireless communication device from the second wireless communication device, a second configuration in response to the instantaneous MPE violation report, the second configuration indicating at least one of an updated beam index, an updated transmission power parameter, or an updated resource allocation; and

transmitting, by the first wireless communication device, a second communication signal based on the second configuration.

7. The method of claim 1, further comprising:

transmitting, by the first wireless communication device to a third wireless communication device, the plurality of reports,

wherein the second wireless communication device and the third wireless communication device are different.

8. The method of claim 7, further comprising:

transmitting, by the first wireless communication device to the third wireless communication device, a second communication signal over a second beam different from the first beam,

wherein the first configuration indicates an instruction to handover from the second wireless communication device to the third wireless communication device.

9. A method of wireless communication, comprising:

receiving, by a first wireless communication device from a second wireless communication device, a plurality of reports, each report indicating an allowable transmission

power level at the second wireless communication device satisfying a maximum permissible exposure (MPE) parameter;

transmitting, by the first wireless communication device to the second wireless communication device, a first configuration based on an MPE profile associated with the second wireless communication device in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

receiving, by the first wireless communication device from the second wireless communication device, a first communication signal over a first beam based on the first configuration.

10. The method of claim 9, further comprising:

determining, by the first wireless communication device, the MPE profile associated with the second wireless communication device based at least on the plurality of reports; and

determining, by the first wireless communication device, the first configuration including at least one of a beam index, a transmission power parameter, or a resource allocation based at least on the MPE profile.

11. The method of claim 9, wherein the receiving the plurality of reports includes receiving the plurality of reports over a training time period, and wherein the method further comprises:

determining, by the first wireless communication device, the MPE profile including the statistical information associated with the allowable transmission power levels over the training time period.

12. The method of claim 11, further comprising:

transmitting, by the first wireless communication device to the second wireless communication device, a report configuration indicating the training time period.

13. The method of claim 9, further comprising:

receiving, by the first wireless communication device from the second wireless communication device, an instantaneous MPE violation report associated with the transmitting the first communication signal.

14. The method of claim 13, further comprising:

determining, by the first wireless communication device, a second configuration by adjusting at least one of at least one of a beam index, a transmission power parameter, or a resource allocation in the first configuration in response to the instantaneous MPE violation report;

transmitting, by the first wireless communication device to the second wireless communication device, the second configuration; and

receiving, by the first wireless communication device from the second wireless communication device, a second communication signal based on the second configuration.

15. The method of claim 9, further comprising:

coordinating, by the first wireless communication device with a third wireless communication device, to determine the first configuration based on the MPE profile associated with the second wireless communication device.

16. The method of claim 15, wherein the coordinating includes:

coordinating, by the first wireless communication device with the third wireless communication device, to determine a network-level MPE profile associated with a plurality of wireless communication devices in a network, the plurality of wireless communication devices including the second wireless communication device; and

coordinating, by the first wireless communication device with the third wireless communication device, to handover the second wireless communication device from the first wireless communication device to the third wireless communication device based on the network-level MPE profile.

17. An apparatus comprising:

a transceiver configured to:

transmit, to a second wireless communication device, a plurality of reports, each report indicating an allowable transmission power level at the apparatus satisfying a maximum permissible exposure (MPE) parameter;

receive, from the second wireless communication device, a first configuration based on an MPE profile associated with the apparatus in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

transmit, to the second wireless communication device, a first communication signal over a first beam based on the first configuration.

18. The apparatus of claim 17, wherein the transceiver is further configured to transmit the first communication signal by transmitting the first communication signal over the first beam based at least on one of a beam index, a transmission power parameter, or a resource allocation in the first configuration.

19. The apparatus of claim 17, further comprising:

a processor configured to determine the allowable transmission power levels over a training time period,

wherein the MPE profile includes the statistical information associated with at least the allowable transmission power levels over the training time period.

20. The apparatus of claim 19, wherein the transceiver is further configured to:

receive, from the second wireless communication device, a report configuration indicating the training time period.

21. The apparatus of claim 17, further comprising:

a processor configured to determine whether the transmission of the first communication signal satisfies an instantaneous MPE parameter,

wherein the transceiver is further configured to transmit, to the second wireless communication device, an instantaneous MPE violation report when determining that the

transmission of the first communication signal does not satisfy the instantaneous MPE parameter.

22. The apparatus of claim 21, wherein the transceiver is further configured to:

receive, from the second wireless communication device, a second configuration in response to the instantaneous MPE violation report, the second configuration indicating at least one of an updated beam index, an updated transmission power parameter, or an updated resource allocation; and

transmit a second communication signal based on the second configuration.

23. The apparatus of claim 17, wherein the transceiver is further configured to:

transmit, to a third wireless communication device, the plurality of reports, and

wherein the second wireless communication device and the third wireless communication device are different.

24. The apparatus of claim 23, wherein the transceiver is further configured to:

transmit, to the third wireless communication device, a second communication signal over a second beam different from the first beam, and

wherein the first configuration indicates an instruction to handover from the second wireless communication device to the third wireless communication device.

25. An apparatus comprising:

a transceiver configured to:

receive, from a second wireless communication device, a plurality of reports, each report indicating an allowable transmission power level at the second wireless communication device satisfying a maximum permissible exposure (MPE) parameter;

transmit, to the second wireless communication device, a first configuration based on an MPE profile associated with the second wireless communication device in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

receive, from the second wireless communication device, a first communication signal over a first beam based on the first configuration.

26. The apparatus of claim 25, further comprising a processor configured to:

determine the MPE profile associated with the second wireless communication device based at least on the plurality of reports; and

determine the first configuration including at least one of a beam index, a transmission power parameter, or a resource allocation based at least on the MPE profile.

27. The apparatus of claim 25, wherein the transceiver is further configured to receive the plurality of reports by receiving the plurality of reports over a training time period, and wherein the apparatus further comprises:

a processor is further configured to determine the MPE profile including the statistical information associated with the allowable transmission power levels over the training time period.

28. The apparatus of claim 27, wherein the transceiver is further configured to:

transmit, to the second wireless communication device, a report configuration indicating the training time period.

29. The apparatus of claim 25, wherein the transceiver is further configured to:

receive, from the second wireless communication device, an instantaneous MPE violation report associated with the transmission of the first communication signal.

30. The apparatus of claim 29, further comprising:

a processor configured to determine a second configuration by adjusting at least one of at least one of a beam index, a transmission power parameter, or a resource allocation in the first configuration in response to the instantaneous MPE violation report,

wherein the transceiver is further configured to:

transmit, to the second wireless communication device, the second configuration; and

receive, from the second wireless communication device, a second communication signal based on the second configuration.

31. The apparatus of claim 25, further comprising:

a processor configured to coordinate, with a third wireless communication device, to determine the first configuration based on the MPE profile associated with the second wireless communication device.

32. The apparatus of claim 31, wherein the processor is further configured to coordinate by:

coordinating, with the third wireless communication device, to determine a network-level MPE profile associated with a plurality of wireless communication devices in a network, the plurality of wireless communication devices including the second wireless communication device; and

coordinating, with the third wireless communication device, to handover the second wireless communication device from the apparatus to the third wireless communication device based on the network-level MPE profile.

33. A non-transitory computer-readable medium having program code recorded thereon, the program code comprising:

code for causing a first wireless communication device to transmit, to a second wireless communication device, a plurality of reports, each report indicating an allowable transmission power level at the first wireless communication device satisfying a maximum permissible exposure (MPE) parameter;

code for causing the first wireless communication device to receive, from the second wireless communication device, a first configuration based on an MPE profile associated with the first wireless communication device in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

code for causing the first wireless communication device to transmit, to the second wireless communication device, a first communication signal over a first beam based on the first configuration.

34. The non-transitory computer-readable medium of claim 33, wherein the code for causing the first wireless communication device to transmit the first communication signal is further configured to transmit the first communication signal over the first beam based at least on one of a beam index, a transmission power parameter, or a resource allocation in the first configuration.

35. The non-transitory computer-readable medium of claim 33, further comprising:

code for causing the first wireless communication device to determine the allowable transmission power levels over a training time period,

wherein the MPE profile includes the statistical information associated with at least the allowable transmission power levels over the training time period.

36. The non-transitory computer-readable medium of claim 35, further comprising:

code for causing the first wireless communication device to receive, from the second wireless communication device, a report configuration indicating the training time period.

37. The non-transitory computer-readable medium of claim 33, further comprising:

code for causing the first wireless communication device to determine whether the transmission of the first communication signal satisfies an instantaneous MPE parameter; and

code for causing the first wireless communication device to transmit, to the second wireless communication device, an instantaneous MPE violation report when determining that the transmission of the first communication signal does not satisfy the instantaneous MPE parameter.

38. The non-transitory computer-readable medium of claim 37, further comprising:

code for causing the first wireless communication device to receive, from the second wireless communication device, a second configuration in response to the instantaneous MPE violation report, the second configuration indicating at least one of an updated beam index, an updated transmission power parameter, or an updated resource allocation; and

code for causing the first wireless communication device to transmit a second communication signal based on the second configuration.

39. The non-transitory computer-readable medium of claim 33, further comprising:

code for causing the first wireless communication device to transmit, to a third wireless communication device, the plurality of reports,

wherein the second wireless communication device and the third wireless communication device are different.

40. The non-transitory computer-readable medium of claim 39, further comprising:

code for causing the first wireless communication device to transmit, to the third wireless communication device, a second communication signal over a second beam different from the first beam,

wherein the first configuration indicates an instruction to handover from the second wireless communication device to the third wireless communication device.

41. A non-transitory computer-readable medium having program code recorded thereon, the program code comprising:

code for causing a first wireless communication device to receiving, from a second wireless communication device, a plurality of reports, each report indicating an allowable transmission power level at the second wireless communication device satisfying a maximum permissible exposure (MPE) parameter;

code for causing the first wireless communication device to transmit, to the second wireless communication device, a first configuration based on an MPE profile associated with the second wireless communication device in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

code for causing the first wireless communication device to receive, from the second wireless communication device, a first communication signal over a first beam based on the first configuration.

42. The non-transitory computer-readable medium of claim 41, further comprising:

code for causing the first wireless communication device to determine the MPE profile associated with the second wireless communication device based at least on the plurality of reports; and

code for causing the first wireless communication device to determine the first configuration including at least one of a beam index, a transmission power parameter, or a resource allocation based at least on the MPE profile.

43. The non-transitory computer-readable medium of claim 41, wherein the code for causing the first wireless communication device to receive the plurality of reports is further configured to receive the plurality of reports over a training time period, and wherein the computer-readable medium further comprises:

code for causing the first wireless communication device to determine the MPE profile including the statistical information associated with the allowable transmission power levels over the training time period.

44. The non-transitory computer-readable medium of claim 43, further comprising:

code for causing the first wireless communication device to transmit, to the second wireless communication device, a report configuration indicating the training time period.

45. The non-transitory computer-readable medium of claim 41, further comprising:

code for causing the first wireless communication device to receive, from the second wireless communication device, an instantaneous MPE violation report associated with the transmission of the first communication signal.

46. The non-transitory computer-readable medium of claim 45, further comprising:

code for causing the first wireless communication device to determine a second configuration by adjusting at least one of at least one of a beam index, a transmission power parameter, or a resource allocation in the first configuration in response to the instantaneous MPE violation report;

code for causing the first wireless communication device to transmit, to the second wireless communication device, the second configuration; and

code for causing the first wireless communication device to receive, from the second wireless communication device, a second communication signal based on the second configuration.

47. The non-transitory computer-readable medium of claim 41, further comprising:

code for causing the first wireless communication device to coordinate, with a third wireless communication device, to determine the first configuration based on the MPE profile associated with the second wireless communication device.

48. The non-transitory computer-readable medium of claim 47, wherein the code for causing the first wireless communication device to coordinate to determine the first configuration is further configured to:

coordinate, with the third wireless communication device, to determine a network-level MPE profile associated with a plurality of wireless communication devices in a network, the plurality of wireless communication devices including the second wireless communication device; and

coordinate, with the third wireless communication device, to handover the second wireless communication device from the first wireless communication device to the third wireless communication device based on the network-level MPE profile.

49. An apparatus comprising:

means for transmitting, to a second wireless communication device, a plurality of reports, each report indicating an allowable transmission power level at the apparatus satisfying a maximum permissible exposure (MPE) parameter;

means for receiving, from the second wireless communication device, a first configuration based on an MPE profile associated with the apparatus in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

means for transmitting, to the second wireless communication device, a first communication signal over a first beam based on the first configuration.

50. The apparatus of claim 49, wherein the means for transmitting the first communication signal is further configured to transmit the first communication signal over the first beam based at least on one of a beam index, a transmission power parameter, or a resource allocation in the first configuration.

51. The apparatus of claim 49, further comprising:

means for determining the allowable transmission power levels over a training time period,

wherein the MPE profile includes the statistical information associated with at least the allowable transmission power levels over the training time period.

52. The apparatus of claim 51, further comprising:

means for receiving, from the second wireless communication device, a report configuration indicating the training time period.

53. The apparatus of claim 49, further comprising:

means for determining whether the transmitting the first communication signal satisfies an instantaneous MPE parameter; and

means for transmitting, to the second wireless communication device, an instantaneous MPE violation report when determining that the transmitting the first communication signal does not satisfy the instantaneous MPE parameter.

54. The apparatus of claim 53, further comprising:

means for receiving, from the second wireless communication device, a second configuration in response to the instantaneous MPE violation report, the second configuration indicating at least one of an updated beam index, an updated transmission power parameter, or an updated resource allocation; and

means for transmitting a second communication signal based on the second configuration.

55. The apparatus of claim 49, further comprising:

means for transmitting, to a third wireless communication device, the plurality of reports,

wherein the second wireless communication device and the third wireless communication device are different.

56. The apparatus of claim 55, further comprising:

means for transmitting, to the third wireless communication device, a second communication signal over a second beam different from the first beam,

wherein the first configuration indicates an instruction to handover from the second wireless communication device to the third wireless communication device.

57. An apparatus comprising:

means for receiving, from a second wireless communication device, a plurality of reports, each report indicating an allowable transmission power level at the second wireless communication device satisfying a maximum permissible exposure (MPE) parameter;

means for transmitting, to the second wireless communication device, a first configuration based on an MPE profile associated with the second wireless communication device in response to the plurality of reports, wherein the MPE profile includes statistical information associated with at least the allowable transmission power levels; and

means for receiving, from the second wireless communication device, a first communication signal over a first beam based on the first configuration.

58. The apparatus of claim 57, further comprising:

means for determining the MPE profile associated with the second wireless communication device based at least on the plurality of reports; and

means for determining the first configuration including at least one of a beam index, a transmission power parameter, or a resource allocation based at least on the MPE profile.

59. The apparatus of claim 57, wherein the means for receiving the plurality of reports is further configured to receive the plurality of reports over a training time period, and wherein the apparatus further comprises:

means for determining the MPE profile including the statistical information associated with the allowable transmission power levels over the training time period.

60. The apparatus of claim 59, further comprising:

means for transmitting, to the second wireless communication device, a report configuration indicating the training time period.

61. The apparatus of claim 57, further comprising:

means for receiving, from the second wireless communication device, an instantaneous MPE violation report associated with the transmitting the first communication signal.

62. The apparatus of claim 61, further comprising:

means for determining a second configuration by adjusting at least one of at least one of a beam index, a transmission power parameter, or a resource allocation in the first configuration in response to the instantaneous MPE violation report;

means for transmitting, to the second wireless communication device, the second configuration; and

means for receiving, from the second wireless communication device, a second communication signal based on the second configuration.

63. The apparatus of claim 57, further comprising:

means for coordinating, with a third wireless communication device, to determine the first configuration based on the MPE profile associated with the second wireless communication device.

64. The apparatus of claim 63, wherein the means for coordinating to determine the first configuration is further configured to:

coordinate, with the third wireless communication device, to determine a network-level MPE profile associated with a plurality of wireless communication devices in a network, the plurality of wireless communication devices including the second wireless communication device; and

coordinate, with the third wireless communication device, to handover the second wireless communication device from the apparatus to the third wireless communication device based on the network-level MPE profile.