CLAIMS

1. A method of wireless communication, comprising: generating, by a first device, a message including transmit power related information corresponding to the first device, wherein the transmit power related information includes power backoff per modulation and coding scheme information, wherein the power backoff per modulation and coding scheme information includes a plurality of power backoffs including a first power backoff and a second power backoff corresponding to a first modulation and coding scheme and a third power backoff and a fourth power backoff corresponding to a second modulation and coding scheme, wherein the first power backoff and the second power backoff included in the message correspond to at least one of: a respective bandwidth for the first modulation and coding scheme or a respective number of spatial streams for the first modulation and coding scheme, wherein the third power backoff and the fourth power backoff included in the message correspond to at least one of: a respective bandwidth for the second modulation and coding scheme or a respective number of spatial streams for the second modulation and coding scheme; and transmitting, by the first device, the message to a second device.

2. The method of claim 1, wherein generating the message includes generating the message in response to a trigger event.

3. The method of claim 2, further comprising: determining, by the first device, to transmit the transmit power related information, wherein the trigger event includes the determination to transmit the transmit power related information.

4. The method of claim 3, wherein determining to transmit the transmit power related information includes: determining, by the first device, to transmit the transmit power related information to the second device, wherein the trigger event includes the determination to transmit the transmit power related information to the second device; or determining, by the first device, to broadcast the transmit power related information, wherein the trigger event includes the determination to broadcast the transmit power related information.

5. The method of claim 2, further comprising: initiating, by the first device, an association procedure with the second device, wherein the trigger event includes the initiation of the association procedure with the second device.

6. The method of claim 2, further comprising: completing, by the first device, an association procedure with the second device, wherein the trigger event includes the completion of the association procedure with the second device.

7. The method of claim 2, further comprising: receiving, by the first device, an association procedure request, wherein the trigger event includes the reception of the association procedure request.

8. The method of claim 2, further comprising: receiving, by the first device, a request for the transmit power related information, wherein the trigger event includes the reception of the request for the transmit power related information.

9. The method of claim 8, wherein receiving the request for the transmit power related information includes: receiving, by the first device, the request for the transmit power related information from the second device.

10. The method of claim 2, further comprising: receiving, by the first device from the second device, capability information indicative that the second device is capable of processing transmit power related information, wherein the trigger event includes the reception of the capability information.

11. The method of claim 1, wherein the power backoff per modulation and coding scheme information is received in a high efficiency (HE) capability information element (IE) of a frame, wherein the message is the frame.

12. The method of claim 11, wherein the frame is a data frame or an HE control frame.

13. The method of claim 1, wherein the power backoff per modulation and coding scheme information is received in a Medium Access Control (MAC) header or a physical layer (PHY) header of a data frame.

14. A first device, comprising: a memory configured to store data; and one or more processors communicatively coupled with the memory, wherein the one or more processors are configured to: generate a message including transmit power related information corresponding to the first device, wherein the transmit power related information includes power backoff per modulation and coding scheme information, wherein the power backoff per modulation and coding scheme information includes a plurality of power backoffs including a first power backoff and a second power backoff corresponding to a first modulation and coding scheme and a third power backoff and a fourth power backoff corresponding to a second modulation and coding scheme, wherein the first power backoff and the second power backoff included in the message correspond to at least one of: a respective bandwidth for the first modulation and coding scheme or a respective number of spatial streams for the first modulation and coding scheme, wherein the third power backoff and the fourth power backoff included in the message correspond to at least one of: a respective bandwidth for the second modulation and coding scheme or a respective number of spatial streams for the second modulation and coding scheme; store the message in the memory; and transmit the message to a second device.

15. The first device of claim 14, wherein to generate the message, the one or more processors are configured to generate the message in response to a trigger event.

16. The first device of claim 15, wherein the one or more processors are configured to: determine

to transmit the transmit power related information, wherein the trigger event includes the determination to transmit the transmit power related information.

17. The first device of claim 16, wherein to determine to transmit the transmit power related information, the one or more processors are configured to: determine to transmit the transmit power related information to the second device, wherein the trigger event includes the determination to transmit the transmit power related information to the second device; or determine to broadcast the transmit power related information, wherein the trigger event includes the determination to broadcast the transmit power related information.

18. The first device of claim 15, wherein the one or more processors are configured to: initiate an association procedure with the second device, wherein the trigger event includes the initiation of the association procedure with the second device.

19. The first device of claim 15, wherein the one or more processors are configured to: complete an association procedure with the second device, wherein the trigger event includes the completion of the association procedure with the second device.

20. The first device of claim 15, wherein the one or more processors are configured to: receive an association procedure request, wherein the trigger event includes the reception of the association procedure request.

21. The first device of claim 15, wherein the one or more processors are configured to: receive a request for the transmit power related information, wherein the trigger event includes the reception of the request for the transmit power related information.

22. The first device of claim 21, wherein to receive the request for the transmit power related information, the one or more processors are configured to: receive the request for the transmit power related information from the second device.

23. The first device of claim 15, wherein the one or more processors are configured to: receive capability information indicative that the second device is capable of processing transmit power related information, wherein the trigger event includes the reception of the capability information.

24. The first device of claim 14, wherein the power backoff per modulation and coding scheme information is received in a high efficiency (HE) capability information element (IE) of a frame, wherein the message is the frame.

25. The first device of claim 24, wherein the frame is a data frame or an HE control frame.

26. The first device of claim 14, wherein the power backoff per modulation and coding scheme information is received in a Medium Access Control (MAC) header or a physical layer (PHY)

header of a data frame.

27. A first apparatus comprising: means for generating a message including transmit power related information corresponding to the first apparatus, wherein the transmit power related information includes power backoff per modulation and coding scheme information, wherein the power backoff per modulation and coding scheme information includes a plurality of power backoffs including a first power backoff and a second power backoff corresponding to a first modulation and coding scheme and a third power backoff and a fourth power backoff corresponding to a second modulation and coding scheme, wherein the first power backoff and the second power backoff included in the message correspond to at least one of: a respective bandwidth for the first modulation and coding scheme or a respective number of spatial streams for the first modulation and coding scheme, wherein the third power backoff and the fourth power backoff included in the message correspond to at least one of: a respective bandwidth for the second modulation and coding scheme or a respective number of spatial streams for the second modulation and coding scheme; and means for transmitting the message to a second apparatus.