CLAIMS

1. A base station (BS) for wireless communication, comprising:
at least one memory; and
at least one processor coupled with the at least one memory and configured to cause the BS to:
determine a configuration for adapting a backscattering link between the BS and a device configured for ambient backscattering; and
transmit the configuration to the device configured for ambient backscattering.

2. The BS of claim 1, wherein the device configured for ambient backscattering comprises an ambient Internet of Things device.

3. The BS of claim 1, wherein the configuration comprises information for changing at least one of a coding scheme, a modulation scheme, a coding rate, a pulse duration state, or a combination thereof associated with a backscattered signal.

4. The BS of claim 1, wherein the configuration comprises information indicating a number of repetitions to be applied for a backscattered signal.

5. The BS of claim 1, wherein the configuration comprises information for adapting a pulse length for ON and OFF states to a backscattered signal.

6. The BS of claim 5, wherein the configuration comprises information for adapting pulse interval encoding for the backscattered signal.

7. The BS of claim 1, wherein the at least one processor is configured to cause the BS to:
transmit the configuration to the device configured for ambient backscattering in a downlink signal, wherein control information for adapting the backscattering link is located within a bit field of a header of the downlink signal.

8. The BS of claim 1, wherein the at least one processor is configured to cause the BS to:
receive an indication that the configuration is applied, the indication received in

a backscattered signal from the device configured for ambient backscattering, wherein the indication comprises an applied modulation scheme, coding scheme, repetition scheme, or a combination thereof.

9. A method performed by a base station (BS), the method comprising:

determining a configuration for adapting a backscattering link between the BS and a device configured for ambient backscattering; and

transmitting the configuration to the device configured for ambient backscattering.

10. A device for wireless communication, comprising:

at least one memory; and

at least one processor coupled with the at least one memory and configured to cause the device to:

receive a configuration for adapting a backscattering link between the device and a base station (BS), the device configured for ambient backscattering; and

apply the configuration for adapting the backscattering link.

11. The device of claim 10, wherein the device comprises an ambient Internet of Things device.

12. The device of claim 10, wherein the configuration comprises information for changing at least one of a coding scheme, a modulation scheme, a coding rate, a pulse duration state, or a combination thereof associated with a backscattered signal.

13. The device of claim 10, wherein the at least one processor is configured to cause the device to:

apply a number of repetitions to a backscattered signal according to the configuration.

14. The device of claim 10, wherein the at least one processor is configured to cause the device to:

change at least one of a coding scheme, a modulation scheme, a coding rate, a

pulse duration state, or a combination thereof associated with a backscattered signal according to the configuration.

15. A method performed by a device, the method comprising:

receiving a configuration for adapting a backscattering link between the device and a base station (BS), the device configured for ambient backscattering; and

applying the configuration for adapting the backscattering link.