

CLAIMS:

1. A wireless network interface circuit, comprising:
a wireless interface; and
a processing circuit,
the processing circuit being configured to:
receive a shutdown command through the wireless interface;
transition to a limited activity state, in response to the receiving of the shutdown command; and
operate in the limited activity state, the operating in the limited activity state comprising generating wireless transmissions at a rate not exceeding a threshold.
2. The wireless network interface circuit of claim 1, wherein the operating in the limited activity state comprises generating no wireless transmissions.
3. The wireless network interface circuit of claim 1 or 2, wherein the generating of wireless transmissions at a rate not exceeding a threshold comprises generating transmissions with a duty cycle less than a duty cycle threshold.
4. The wireless network interface circuit of any preceding claim, wherein the generating wireless transmissions at a rate not exceeding a threshold comprises generating transmissions with an average frame rate less than a frame rate threshold.

5. The wireless network interface circuit of any preceding claim, further comprising a host interface, wherein the processing circuit is configured to not modify the response to a shutdown command in response to a command or data received through the wireless interface or through the host interface.

6. The wireless network interface circuit of claim 5, wherein the processing circuit comprises a state machine configured to operate in either the limited activity state or a normal state.

7. The wireless network interface circuit of claim 5 or 6, further comprising a memory storing instructions that when executed by the processing circuit cause the processing circuit to cause the wireless network interface circuit to transition to the limited activity state, wherein the instructions are not modifiable via a command or data received through the wireless interface or through the host interface.

8. The wireless network interface circuit of any preceding claim, wherein the transitioning to a limited activity state is further in response to authenticating the shutdown command.

9. The wireless network interface circuit of any preceding claim, wherein the processing circuit is configured to cause the wireless network interface circuit to transition from the limited activity state to a normal state upon powering down and powering up of the wireless network interface circuit.

10. The wireless network interface circuit of any preceding claim, wherein the processing circuit is further configured to:

receive a restart command; and

transition from the limited activity state to a normal state in response to the receiving of the restart command.

11. The wireless network interface circuit of claim 10, wherein the receiving of the restart command comprises receiving the restart command through the wireless interface.

12. The wireless network interface circuit of claim 10, further comprising a host interface, wherein the receiving of the restart command comprises receiving the restart command through the host interface.

13. The wireless network interface circuit of any preceding claim, further comprising a host interface, wherein the processing circuit is further configured to:

send a notification, through the host interface, in response to the receiving of the shutdown command.

14. The wireless network interface circuit of claim 13, wherein the shutdown command comprises a message, and the notification comprises an indication of the message.

15. A wireless network interface circuit, comprising:

- a host interface;
- a wireless interface;
- a processing circuit; and
- a memory,

the memory storing instructions that when executed by the processing circuit cause the wireless network interface circuit to:

- receive a shutdown command through the wireless interface;
- transition to a limited activity state, in response to the receiving of the shutdown command; and
- operate in the limited activity state, the operating in the limited activity state comprising generating wireless transmissions at a rate not exceeding a threshold,

wherein the instructions are not modifiable via a command or data received through the wireless interface or through the host interface.

16. A method, comprising:

- receiving, by a wireless network interface circuit, through a wireless interface of the wireless network interface circuit, a shutdown command;
- transitioning, by the wireless network interface circuit, to a limited activity state, in response to the receiving of the shutdown command; and

operating, by the wireless network interface circuit, in the limited activity state, the operating in the limited activity state comprising generating wireless transmissions at a rate not exceeding a threshold.

17. The method of claim 16, wherein the operating in the limited activity state comprises generating no wireless transmissions.

18. The method of claim 16 or 17, wherein the generating of wireless transmissions at a rate not exceeding a threshold comprising generating transmissions with a duty cycle less than a duty cycle threshold.

19. The method of any one of claims 16 to 18, wherein the generating wireless transmissions at a rate not exceeding a threshold comprising generating transmissions with an average frame rate less than a frame rate threshold.

20. The method of any one of claims 16 to 19, wherein the wireless network interface circuit is configured to not modify the response to a shutdown command in response to a command or data received through a wireless interface of the wireless network interface circuit or through a host interface of the wireless network interface circuit.