Claims

What is claimed is:

1. A method for seamless handover of communications, the method comprising:

receiving at an accessory a first host identifier that uniquely identifies a first host for communications;

receiving at the accessory a second host identifier that uniquely identifies a second host for communications;

storing in the accessory the first host identifier and the second host identifier as identifier information;

receiving at a mobile device at least a portion of the identifier information;

displaying at the mobile device a list of hosts based on the at least a portion of the identifier information;

selecting from among the list of hosts the first host as a selected host;

instructing the accessory to communicate with the selected host without re-pairing with the selected host;

selecting from among the list of hosts the second host as a newly-selected host;

instructing the accessory to switch communications from the selected host to the newly-selected host without re-pairing with the newly-selected host; and

when the communication between the accessory and the newly-selected host is successfully, receiving by the accessory data stream from the newly-selected host, and when the communication between the accessory and the newly-selected host is unsuccessfully, reverting to the communication with the selected host by the accessory.

2. The method of claim 1, wherein the communications comprise Bluetooth communications.

3. The method of claim 1, wherein instructing the accessory to communicate with the selected host without re-pairing with the selected host comprises instructing the accessory to communicate using Bluetooth communications without re-pairing with the selected host.

4. The method of claim 1, wherein receiving at the accessory the first host identifier comprises pairing the first host with the accessory.

5. The method of claim 1, wherein the first host identifier comprises one of a MAC address or a name of the first host.

6. The method of claim 1, wherein the identifier information comprises a collection of host identifiers, wherein each host identifier in the collection of host identifiers corresponds to a different host.

7. The method of claim 1, wherein instructing the accessory to communicate with the selected host comprises transmitting identifier information corresponding to the selected host to the accessory.

8. The method of claim 1, further comprises instructing the accessory to disconnect from the selected host when the accessory switches communications from the selected host to the newly-selected host.

9. The method of claim 1, wherein the mobile device receives the at least a portion of the identifier information using Bluetooth low energy communication mode with the accessory.

10. The method of claim 1, wherein instructing the accessory to communicate via communication with the selected host comprises instructing the accessory to communicate using Bluetooth classic mode communication with the host.

11. The method of claim 1, wherein receiving at the mobile device the at least a portion of the identifier information comprises receiving the at least a portion of the identifier information from the accessory using Bluetooth low energy mode communication.

12. A mobile device comprising:

a communication module configured to pair with and receive identifier information from an accessory, wherein the identifier information comprises a first host identifier and a second host identifier, wherein the first host identifier uniquely identifies a first host, and wherein the second host identifier uniquely identifies a second host; and

a user interface configured to allow selection of the first host as a selected host from a list of hosts derived from the identifier information, wherein the communication module is further configured to send an instruction to the accessory, wherein the instruction indicates to the accessory to communicate with the selected host without re-pairing with the selected host and the user interface further configured to allow further selection of the second host as a newly-selected host from the list of hosts derived from the identifier information, wherein the communication module is further configured to send a further instruction to the accessory, wherein the further instruction indicates to the accessory to switch communications from the selected host to the newly-selected host without re-pairing with the newly-selected host,

wherein when the communication between the accessory and the newly-selected host is unsuccessfully, the communication module is informed by the unsuccessfulness.

13. The mobile device of claim 12, wherein the communication module is further configured to use Bluetooth low energy mode communication to send the instruction to the accessory.

14. The mobile device of claim 12, wherein the first host and the second host were previously paired with the accessory.

15. The mobile device of claim 12, wherein the first host identifier comprises a MAC address or a name of the first host.

16. The mobile device of claim 12, wherein the instruction comprises identifier information corresponding to the selected host.

17. The mobile device of claim 12, wherein the first host comprises a Bluetooth-enabled television and the accessory comprises Bluetooth-enabled headphones.

18. An accessory comprising:

a communication module configured to receive during a first pairing process a first host identifier, wherein the first host identifier uniquely identifies the first host for communications, wherein the communication module is further configured to receive during a second pairing process a second host identifier, wherein the second host identifier uniquely identifies the second host for communications; and

an identification database configured to store the first host identifier and second host identifier as identifier information, wherein the communication module is

further configured to send at least a portion of the identifier information from the identification database to a mobile device,

wherein the communication module is further configured to receive from the mobile device a first message indicating the first host is a selected host and indicating to communicate with the selected host without repeating the first pairing process,

wherein the communication module is further configured to receive from the mobile device a second message indicating the second host is a newly-selected host and indicating to communicate with the newly-selected host without having to repeat the second pairing process,

wherein when communication between the accessory and the newly-selected host is successfully, the accessory receives data stream from the newly-selected host, and when communication between the accessory and the newly-selected host is unsuccessfully, the accessory reverts to communication with the selected host.

19. The method of claim 1, wherein:

receiving at the mobile device the at least a portion of the identifier information comprises receiving at the mobile device the at least a portion of the identifier information over a communication interface between the mobile device and the accessory;

instructing the accessory to communication with the selected host without re-pairing with the selected host comprises instructing over the communication interface the accessory to communication with the selected host without re-pairing with the selected host while maintaining the communication interface; and

instructing the accessory to switch communications from the selected host to the newly-selected host without re-pairing with the newly-selected host comprises

instructing over the communication interface the accessory to switch communications from the selected host to the newly-selected host without re-pairing with the newly-selected host while maintaining the communication interface.