CLAIMS

1. A wireless communication system comprising:

a wireless routing device, a plurality of communication stations, and a plurality of wireless communication links;

in which the plurality of wireless communication links establishes communication links between the wireless routing device and each of the plurality of communication stations;

in which the wireless communication system supports audio and text-based communication between the plurality of communication stations;

in which the wireless communication system is a private communication system;

in which the wireless communication system supports a broadcast model of communication;

in which by broadcast is meant that: (a) any first individual communication station selected from the plurality of communication stations receives any audio or text-based message transmitted by any second individual communication station selected from the plurality of communication stations; and, (b) any audio or text-based message transmitted by any first individual communication station selected from the plurality of communication stations is received by all the unselected individual communication station remaining in the plurality of communication stations;

in which the wireless routing device comprises a plurality of routing transceivers, a logical device, and a reset switch;

in which the plurality of routing transceivers, the logical device, and the reset switch are electrically interconnected;

in which the plurality of communication stations comprises a plurality of headsets and a plurality of text stations;

in which each of the plurality of headsets is a hands-free communication device selected from the group consisting of earbuds and headphones;

in which each of the plurality of headsets forms a wireless communication link selected from the plurality of wireless communication links with the wireless routing device;

in which each of the plurality of text stations is a text-based communication device; and

in which each of the plurality of text stations forms a wireless communication link selected from the plurality of wireless communication links with the wireless routing device.

2. A wireless communication system according to Claim 1,

in which the wireless communication system supports a private communication facility; and

in which by private communication facility is meant that communications between the communication stations contained in the subset of communication stations selected from the plurality of communication stations are broadcast on a separate communication channel such that communications between the subset of communication stations not accessible from any communication station not contained within the subset of communication stations.

3. A wireless communication system according to Claim 2,

in which the wireless routing device establishes a wireless communication link selected from the plurality of wireless communication links with each individual communication station contained in the plurality of communication stations;

in which the wireless routing device receives a message from any first individual communication station selected from the plurality of communication stations and retransmits the message to each unselected individual communication station remaining in the plurality of communication stations; and

in which the message is selected from the group consisting of an audio message and a text-based message.

4. A wireless communication system according to Claim 3, in which each of the plurality of wireless communication links is a structured data exchange mechanism that is established between the wireless routing device and an individual headset selected from the plurality of headsets.

5. A wireless communication system according to Claim 4, in which the wireless routing device terminates the plurality of wireless communication links.

6. A wireless communication system according to Claim 5,

in which each of the plurality of routing transceivers is an electrical device;

in which each of the plurality of routing transceivers creates and maintains the plurality of wireless communication links between the wireless routing device and the plurality of communication stations;

in which each of the plurality of routing transceivers is a multichannel device; and

in which by multichannel device is meant that each of the plurality of routing transceivers simultaneously manages and maintains each of the multiple wireless communication links selected from the plurality of wireless communication links formed between the plurality of communication stations and the wireless routing device.

7. A wireless communication system according to Claim 6,

in which the plurality of headsets comprises a collection of individual headsets;

in which each of the plurality of headsets is a hands-free communication device selected from the group consisting of earbuds and headphones;

in which each of the plurality of headsets forms a wireless communication link selected from the plurality of wireless communication links with the wireless routing device;

in which each of the plurality of headsets announces any audio messages received over the wireless communication link;

in which any first individual headset selected from the plurality of headsets transmits an audio message over the wireless communication link to the wireless routing device; and

in which any first individual headset selected from the plurality of headsets receives any audio messages transmitted over the wireless communication link by the wireless routing device that were transmitted by any second individual headset selected from the plurality of headsets.

8. A wireless communication system according to Claim 7,

in which the plurality of text stations comprises a collection of individual text stations;

in which the individual text station is a wireless communication device;

in which the individual text station establishes a wireless communication link selected from the plurality of wireless communication links with the wireless routing device;

in which the individual text station generates and transmits a text-based message to the wireless routing device over the wireless communication link;

in which the individual text station receives the text-based message that is transmitted from the wireless routing device over the wireless communication link;

in which the individual text station transceiver creates and maintains the wireless communication link selected from the plurality of wireless communication links between the text station routing transceiver and each individual text station transceiver;

in which any first individual text station selected from the plurality of text stations transmits a text-based message over the wireless communication link to the wireless routing device;

in which any first individual text station selected from the plurality of text stations receives any text-based messages transmitted over the wireless communication link by the wireless routing device that were transmitted by any second individual text station;

in which each of the plurality of text stations generates the text-based message transmitted over the wireless communication link; and

in which each of the plurality of text stations displays the text-based messages received over the wireless communication link.

9. A wireless communication system according to Claim 8,

in which the plurality of routing transceivers comprises a headset routing transceiver and a text station routing transceiver;

in which the headset routing transceiver is an electrical device;

in which the headset routing transceiver creates and maintains the plurality of wireless communication links between the wireless routing device and the plurality of headsets;

in which the headset routing transceiver is a multichannel device;

in which by multichannel device is meant that the headset routing transceiver simultaneously manages and maintains each of the multiple wireless communication links selected from the plurality of wireless communication links formed between the plurality of communication stations and the wireless routing device;

in which the text station routing transceiver is an electrical device;

in which the text station routing transceiver creates and maintains the plurality of wireless communication links between the wireless routing device and the plurality of text stations;

in which the text station routing transceiver is a multichannel device; and

in which by multichannel device is meant that the text station routing transceiver simultaneously manages and maintains each of the multiple wireless communication links selected from the plurality of wireless communication links formed between the plurality of communication stations and the wireless routing device.

10. A wireless communication system according to Claim 9,

in which the logical device is an electric circuit;

in which the logical device controls the operation of the plurality of routing transceivers; and

in which the logical device monitors the reset switch.

11. A wireless communication system according to Claim 10,

in which the logic module operates: (a) a speech to text technology; and, (b) a text to speech technology;

in which the logic module processes audio messages received from the plurality of headset through the speech to text technology such that the logic module transmits a text translation of the received audio message to the plurality of text stations through the text station routing transceiver; and

in which the logic module processes text-based messages received from the plurality of text stations through the text to speech technology such that the logic module transmits an audio transcription of the received text-based message to the plurality of headsets through the headset routing transceiver.

12. A wireless communication system according to Claim 11,

in which the reset switch is a momentary switch;

in which the actuation of the reset switch indicates to the logical device that the plurality of routing transceivers should terminate each individual wireless communication link selected from the plurality of wireless communication links such that the

communication network formed by the wireless communication system is shut down; and

in which the communication network is then reestablished by reestablishing each individual wireless communication link selected from the plurality of wireless communication links.

13. A wireless communication system according to Claim 12,

in which the individual headset is a wireless communication device;

in which the individual headset is selected from the group consisting of headphones and earbuds;

in which the individual headset establishes a wireless communication link selected from the plurality of wireless communication links with the wireless routing device;

in which the individual headset generates and transmits an audio message to the wireless routing device over the wireless communication link; and

in which the individual headset receives an audio message that is transmitted from the wireless routing device over the wireless communication link.

14. A wireless communication system according to Claim 13,

in which each individual headset further comprises an individual headset transceiver, an individual headset speaker, an individual headset microphone, an individual headset linking switch, and an individual headset near field communication circuit;

in which the individual headset transceiver, the individual headset speaker, the individual headset microphone, the individual headset linking switch, and the near field communication circuit are electrically interconnected;

in which the individual headset transceiver is an electrical device;

in which the individual headset transceiver creates and maintains the wireless communication link selected from the plurality of wireless communication links between the wireless routing device and the individual headset transceiver;

in which the individual headset speaker is a transducer;

in which the individual headset speaker receives electrical signals from the individual headset transceiver;

in which the individual headset speaker converts the received electrical signals into acoustic energy that is used to announce the received audio message;

in which the individual headset microphone is a transducer;

in which the individual headset microphone detects acoustic energy in the vicinity of the individual headset and converts the detected acoustic energy into an electric signal;

in which the individual headset microphone transmits the generated electric signal to the individual headset transceiver;

in which the individual headset transceiver transmits the received electric signals to the wireless routing device over the wireless communication link as an audio message;

in which the individual headset transceiver monitors the individual headset linking switch;

in which the individual headset linking switch is a momentary switch;

in which the actuation of the individual headset linking switch indicates to the individual headset transceiver that the individual headset should establish a wireless communication link selected from the plurality of wireless communication links with the wireless routing device such that the individual headset joins the communication network formed by the wireless communication system; and

in which the individual headset near field communication circuit establishes the private communication facility.

15. A wireless communication system according to Claim 14,

in which the plurality of headsets comprises a first headset, a second headset, and an Nth headset;

in which the first headset further comprises a first headset transceiver, a first headset speaker, a first headset microphone, a first headset linking switch, and a first headset nearfield communication circuit;

in which the first headset transceiver, the first headset speaker, the first headset microphone, the first headset linking switch, and the first headset nearfield communication circuit are electrically interconnected;

in which the second headset further comprises a second headset transceiver, a second headset speaker, a second headset microphone, a second headset linking switch, and a second headset nearfield communication circuit;

in which the second headset transceiver, the second headset speaker, the second headset microphone, the second headset linking switch, and the second headset nearfield communication circuit are electrically interconnected;

in which the Nth headset further comprises a Nth headset transceiver, a Nth headset speaker, a Nth headset microphone, a Nth headset linking switch, and a Nth headset nearfield communication circuit;

in which the Nth headset transceiver, the Nth headset speaker, the Nth headset microphone, the Nth headset linking switch, and the Nth headset nearfield communication circuit are electrically interconnected;

in which the first headset transceiver is the individual headset transceiver associated with the first headset;

in which the first headset speaker is the individual headset speaker associated with the first headset;

in which the first headset microphone is the individual headset microphone associated with the first headset;

in which the first headset linking switch is the individual headset linking switch associated with the first headset;

in which the first headset near field communication circuit is the individual headset near field communication circuit associated with the first headset;

in which the second headset transceiver is the individual headset transceiver associated with the second headset;

in which the second headset speaker is the individual headset speaker associated with the second headset;

in which the second headset microphone is the individual headset microphone associated with the second headset;

in which the second headset linking switch is the individual headset linking switch associated with the second headset;

in which the second headset near field communication circuit is the individual headset near field communication circuit associated with the second headset;

in which the Nth headset transceiver is the individual headset transceiver associated with the Nth headset;

in which the Nth headset speaker is the individual headset speaker associated with the Nth headset;

in which the Nth headset microphone is the individual headset microphone associated with the Nth headset;

in which the Nth headset linking switch is the individual headset linking switch associated with the Nth headset; and

in which the Nth headset near field communication circuit is the individual headset near field communication circuit associated with the Nth headset.

16. A wireless communication system according to Claim 15,

in which each individual text station further comprises an individual text station transceiver, an individual text station logic module, an individual text station display, an individual text station interface, and an individual text station near field communication circuit;

in which the individual text station transceiver, the individual text station logic module, the individual text station display, the individual text station interface, and the individual text station near field communication circuit are electrically interconnected;

in which the individual text station transceiver is an electrical device;

in which the individual text station transceiver creates and maintains the wireless communications link selected from the plurality of wireless communication links between the plurality of text stations and each individual text station transceiver;

in which the individual text station logic module is a programmable electrical device;

in which the individual text station logic module receives a text-based message from the individual text station transceiver;

in which the individual text station logic module converts the received electrical signals into a text-based message that is displayed on the individual text station display;

in which the individual text station display is an electrical device used to display the text-based message transmitted from the individual text station logic module;

in which the individual text station interface receives a text-based message from the user of the individual text station and transmits the text-based message to the individual text station logic module for transmission to the plurality of text stations by the individual text station transceiver; and

in which the individual text station near field communication circuit establishes the private communication facility.

17. A wireless communication system according to Claim 16,

in which the plurality of text stations further comprises a first text station, a second text station, and an Nth text station;

in which the first text station further comprises a first text station transceiver, a first text station logic module, a first text station display, a first text station interface, and a first text station near field communication circuit;

in which the first text station transceiver, the first text station logic module, the first text station display, the first text station interface, and the first text station near field communication circuit are electrically interconnected;

in which the first text station is a headset used to join the communication network formed by the wireless communication system;

in which the first text station transceiver is the individual text station transceiver associated with the first text station;

in which the first text station logic module is the individual text station logic module associated with the first text station;

in which the first text station display is the individual text station display associated with the first text station;

in which the first text station interface is the individual text station interface associated with the first text station;

in which the first text station near field communication circuit is the individual text station near field communication circuit associated with the first text station;

in which the second text station further comprises a second text station transceiver, a second text station logic module, a second text station display, a second text station interface, and a second near field communication circuit;

in which the second text station transceiver, the second text station logic module, the second text station display, the second text station interface, and the second near field communication circuit are electrically interconnected;

in which the second text station is a headset used to join the communication network formed by the wireless communication system;

in which the second text station transceiver is the individual text station transceiver associated with the second text station;

in which the second text station logic module is the individual text station logic module associated with the second text station;

in which the second text station display is the individual text station display associated with the second text station;

in which the second text station interface is the individual text station interface associated with the second text station

in which the second text station near field communication circuit is the individual text station near field communication circuit associated with the second text station;

in which the Nth text station further comprises a Nth text station transceiver, a Nth text station logic module, a Nth text station display, a Nth text station interface, and a Nth near field communication circuit;

in which the Nth text station transceiver, the Nth text station logic module, the Nth text station display, the Nth text station interface, and the Nth near field communication circuit are electrically interconnected;

in which the Nth text station is a headset used to join the communication network formed by the wireless communication system;

in which the Nth text station transceiver is the individual text station transceiver associated with the Nth text station;

in which the Nth text station logic module is the individual text station logic module associated with the Nth text station;

in which the Nth text station display is the individual text station display associated with the Nth text station;

in which the Nth text station interface is the individual text station interface associated with the Nth text station; and

in which the Nth text station near field communication circuit is the individual text station near field communication circuit associated with the Nth text station.