CLAIMS

What is claimed is:

1. A wireless access point for an intercom system, the wireless access point comprising:

a wireless transceiver; and

an electronic processor configured to

receive a communication from a first wireless intercom device,

identify a home access point for the first wireless intercom device,

transmit audio data from the first wireless intercom device directly to the intercom system in response to a determination that the wireless access point is the home access point for the first wireless intercom device,

wherein said audio data is received by the wireless access point from a beltpack device, receive, by the wireless access point, a communication from a second wireless intercom device;

wherein a second wireless access point transmits a second audio data stream from the second wireless intercom device to the intercom system;

identify, by the wireless access point, a home access point for the second wireless intercom device;

transmit, by the wireless access point, a second audio data stream from the second wireless intercom device to a second wireless access point in response to a determination that the second wireless access point is the home access point for the second wireless intercom device; and

wherein the wireless access point is communicatively coupled to the second wireless access point by an Ethernet connection, wherein the electronic processor is configured to transmit audio data from the first wireless intercom device to the intercom system through the second wireless access point by transmitting the audio data from the first wireless intercom device to the second wireless access point through the Ethernet connection;

wherein a home access point is an access point assigned by a user when the 6 intercom system is set up for each beltpack device and is an access point

identifiable using an electronic address, and wherein each wireless intercom device is assigned one wireless access point as a home access point for the wireless intercom device.

2. The wireless access point of claim 1, wherein the electronic processor is

further configured to receive the second audio data stream from the second wireless access point through the ethernet connection, wherein the second audio data stream is wirelessly received by the second wireless access point from a second wireless intercom device, and transmit the second audio data stream through the wireless transceiver to one or more additional wireless intercom devices connected to the intercom system through the wireless access point.

3. The wireless access point of claim 1, wherein the electronic processor is configured to identify the home access point for the first wireless intercom device by receiving a signal from the first wireless intercom device identifying the home access point assigned to the first wireless intercom device.

4. The wireless access point of claim 1, wherein the home access point assigned to the first wireless intercom device is selected based on a location where the first wireless intercom device is most often operated.

5. A method of routing audio stream data to an intercom system, wherein a plurality of wireless access points comprising a first and a second wireless access point, and a plurality of wireless intercom devices, wherein each wireless intercom device is assigned one wireless access point of the plurality of wireless access points as a home access point for the wireless intercom device, performs the method comprising:

receiving, by the first wireless access point, a communication from a first wireless intercom device of the plurality of wireless intercom devices;7 wherein the second wireless access point transmits the audio data stream from the wireless intercom device to the intercom system identifying, by the first wireless access point, a home access point for the first wireless intercom device;

transmitting, by the first wireless access point, a first audio data stream from the first wireless intercom device directly to the intercom system in response to a determination that the first wireless access point is the home access point for the first wireless intercom device;

wherein said audio data is received by the wireless access point from a beltpack device, receiving, by the first wireless access point, a communication from a second wireless intercom device of the plurality of wireless intercom devices;

identifying, by the first wireless access point, a home access point for the second wireless intercom device;

transmitting, by the first wireless access point, a second audio data stream from the second wireless intercom device to the second wireless access point in response to a determination that the second wireless access point is the home access point for the second wireless intercom device; and transmitting, by the second wireless access point, the second audio data stream from the second wireless intercom device to the intercom system;

wherein a home access point is an access point assigned by a user when the intercom system is set up for each beltpack device and is an access point identifiable using an electronic address, and wherein transmitting, by the first wireless access point, the second audio data stream from the second wireless intercom device to the second wireless access point includes transmitting the second audio data stream from the first wireless access point to the second wireless access point through an Ethernet connection communicatively coupling the first wireless access point to the second wireless access point.

6. The method of claim 5, further comprising 8 receiving, by the second wireless access point, a communication from a third wireless intercom device of the plurality of wireless intercom devices;

identifying, by the second wireless access point, a home access point for the third wireless intercom device;

transmitting, by the second wireless access point, a third audio data stream from the third wireless intercom device to the first wireless access point in response to a

determination that the first wireless access point is the home access point for the third wireless intercom device; and

transmitting, by the first wireless access point, the third audio data stream from the third wireless intercom device to the intercom system.

7. The method of claim 5, wherein identifying the home access point of the second wireless intercom device includes receiving a signal from the second wireless intercom device identifying the home access point assigned to the second wireless intercom device.

8. The method of claim 5, further comprising assigning a home access point to each wireless intercom device of the plurality of wireless intercom devices based on a location where each wireless intercom device of the plurality of wireless intercom devices is most often operated.