Direction Finding Applications

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WZRDnet low-power wireless mesh network applications include:

- User Position
  - Displays GPS coordinates
  - Save position with a description

- User Direction
  - Provides direction of motion

- Direction to Target
  - Directs user to a targeted assembly point
  - Target can be preloaded or updated dynamically over the air via broadcast

- Benefits Include:
  - Simple user interface
  - No maps or landmarks required

The Direction Finding Applications displays a compass-like image showing direction of travel in degrees, distance to target and position. The Applications are extremely useful in cases where dispersed dismounted soldiers have to be directed towards a specific assembly point. In these cases, the leader of the deployment sets the assembly point manually or via the WZRDnet Handset's embedded GPS receiver and sends its coordinates as a broadcast message to all users. Since the Applications are dynamic, a leader can update the target location at any time and all Handsets are automatically revised with the new information. Other uses include blue force tracking, landmine disposal and search & rescue.

The Direction Finding Applications rely on the WZRDnet low-power wireless mesh network and its ability to transmit broadcast messages. WZRDnet's secure voice, text and data messages hop from one Handset to another without the need for an established infrastructure (i.e., no cell towers or satellites required). WZRDnet Handsets have a range of 2 km per hop and 32 hops per message meaning soldiers can be located a significant distance from the assembly point and still find the target.

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