RSAE LABS
Whatever, Wherever, Whenever, You'll Know.

Last Resort Communications

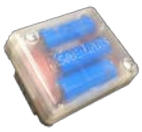
Demonstrated Performance: **1.** Quick, Ad Hoc Install **2.** Ultra-Reliable Communications **3.** Real-Time Situational Awareness **4.** Redundant, Secure Global Backhaul

GS-5L
Cell, Iridium, mist®, Gs, temperature, humidity, GPS

RSU-3
motion, Gs, light, door state, GPS, temperature

mistBit™
motion, Gs, temperature

mistBee®
motion, Gs, temperature



MDC-2
motion, tilt, Gs, temp, humidity, door state, light

PRU-USB
mist® Primary Radio Unit w/ USB interface

1. **Quick, Ad Hoc Install:**
   - RSU-3s spaced ~100' apart used as position beacon, data routers
   - mist® mesh network auto-configures to minimize hops and latency (Display hops and latency)
   - Self-healing (change order and replace nodes)
2. **Ultra-Reliable Communications:**
   - Pass text (mobile tablet w/ PRU-USB)
   - Sensor data (MDC-2)
   - Alerts (mistBit) from nodes to gateway
   - Send command from gateway to end node (tablet) to take a picture
   - Tablet (w/PRU-USB) takes picture and returns image file for display on gateway
3. **Situational Awareness:**
   - Track mobile personnel with mistBee tag for location reports relative to distributed beacons
   - Receive nearest position beacon ID with every message
4. **Global Backhaul:** Create second mesh network from local gateway to global gateway
   - Use GS-5L to communicate via Iridium and cellular
   - Use second tablet to return a screen shot from the global server showing sensor data and alerts