

Sensoria Corporation

- Sensoria Corporation Specializes in MANET R&D driven by application needs
 - Soldier communications leveraging open standards
 - Wireless Sensor Networks
 - Networking First Responders



- Since our founding in 1998 we are experienced with succeeding in DARPA programs
 - SensIT, PicoWINS, SHM, CUGF, DCAMANET, seedling contracts, commercial deployments, and support of US DoD labs
 - Worked with a variety of system integrators
 - Worked as stand-alone supplier
 - Worked with academic and industrial research groups
 - Cleared at the Secret Level

CBMANET Related Experience

- R&D to enhance MANETs

- Integrating and updating AODV

- » Integrating feedback based on link quality
- » Integrated efficient multicast
- » Integrating proactive route establishment enhancements
- » Integrating feedback based on security
- » Enhanced reliability and optional cross layer integration
- » Navy NEASW, DARPA ATO DCAMANET, and US REF A

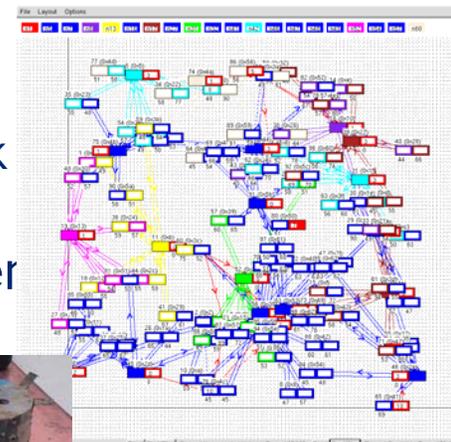
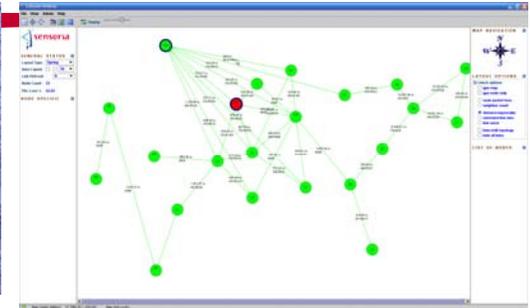
- Integrating and updating OLSR

- » Integrating reactive route establishment enhancements
- » Integrating feedback based on security
- » DARPA ATO DCAMANET, CBRN Wireless Sensor Network Deployment

- Experience with non-IP Routing algorithms development

- » Geography, diffusion, and distributed databases

- Our goal within CBMANET is to develop innovative MANETs at the network level



Goal of Effort in CBMANET

- We specialize in MANETs and embedded computing to enable MANETs

- Research (DoD and commercial)
- Development (research driven by applications)
- Simulation (Qualnet focus)
- Scalable deployments
 - » 100+ networked SHM nodes
 - » 80+ networked buoys
 - » 50+ networked soldiers
 - » Demonstrated out to 20 hops
 - » Efficient use of radio bandwidth

- Our focus is to be radio agnostic

- We team with partners for cross layer controls and input to MANET
- We team with system integrators to create best-of-breed solutions
- We are experienced with a large variety of radios
 - » IP and proprietary, focus is packet radios

