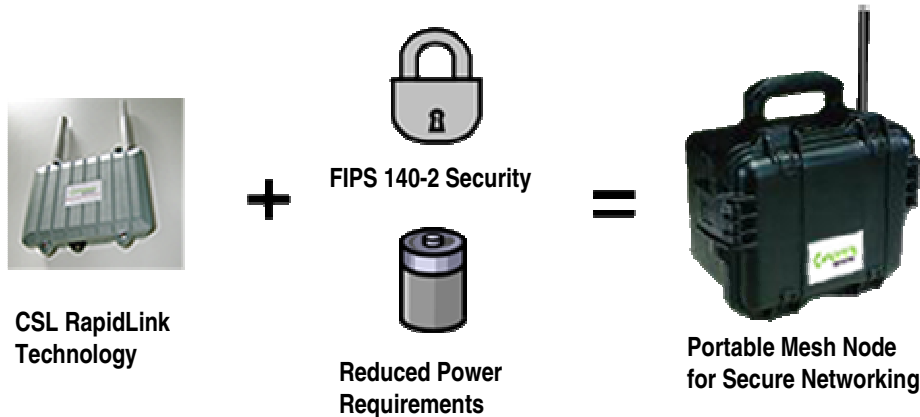


Enhanced Wireless Mesh Networking Technologies

Concentris Systems, LLC
 3207 Noela Drive
 Honolulu, HI 96814
 Phone: 808-988-6100
 POC: Tareq Hoque
 thoque@concentris-systems.com

Enhanced Wireless Mesh Networking



Key Discriminators

Operational Capability

- Portable, battery-powered units for rapidly-deployed, secure wireless mesh networking are essential for sensor networks, battlefield communications, temporary installations
 - MANETS
 - Convoy Security
 - Perimeter Security Networks
 - Shipboard Sensor Networks
 - First responder and disaster recovery
- Reduced power requirements will make RapidLink platform suitable for permanent unattended installations using small solar panels.
- FIPS 140-2 security compliance will meet Federal network standards.
- US Army Armament Research, Development and Engineering Center at Picatinny (NJ) Arsenal has expressed interest.

Problem/Readiness/Champions

Problem Being Addressed

Reduced power consumption, improved data security and enhanced usability are required to adapt existing wireless mesh nodes to enable portable, rapidly-deployed wireless networking for first-responder, disaster-recovery and military applications.

Technology Readiness Level

Technology Readiness Level 3. Wireless mesh networks are designed for ease of mobility, but currently available equipment requires external power supply and is not readily portable.

Champions

Office of Naval Research has awarded \$270,000 for research through Hawaii Technology Development Venture grant.

Milestones/Deliverables/Data/Status

Milestones	Deliverable	Date	Status
Develop system requirements	Requirements and specs	1/15/06	In progress
Systems analysis	Analysis of alternatives	2/15/06	In progress
Functional level design	Design and development plan	4/15/06	Future
Build portable hardware platform	Prototype platform	5/15/06	Future
Write software code	Software code	9/15/06	Future
Perform initial testing and QA	Test plan	9/15/06	Future
Perform field testing	Demonstration of prototype	9/15/06	Future
Demonstration and final reporting	Final report	9/15/06	Future