



Tactical Networking

NEXT GENERATION TACTICAL NETWORKING

CoCo's Tactical Networking software enables system integrators and customers to build high performance mobile ad-hoc networks (MANET).

CoCo's next generation self-healing networks are globally scalable, and provide reliable communications in tough tactical environments.

Any Device, Any Network - Deliver MANET solutions that require zero per-device network configurations, using whatever network transport you need.

Reliable Mobile Networks - CoCo networks deliver robust fault tolerance, high throughput and low latency for the most demanding environments.

Global Scalability - CoCo MANET routing maintains high levels of performance at global scales.

Rapid Prototyping and Integration - CoCo's networking software is well-suited for custom solution development and internal research and development efforts.

Pure IP Compatibility - CoCo's mobile networking creates a single broadcast domain across unreliable underlying connections, simplifying network application development.

Tactical Edge Multimedia - CoCo networks enhance situational awareness allowing customers to experience real-time multicasts of video, data and text.

Backed by Strong Partner Support - CoCo has extensive experience working with a variety of partners, from small custom design shops to the largest system integrators.



Why CoCo?

Disaster Tolerance - Self-healing communications for zero infrastructure and mobile networks

Easy Integration - Rapidly deliver high performance custom solutions and reduce schedule risk

Federally Tested - Tested and used by the U.S. Coast Guard, U.S. Army and U.S. Navy. Tested at the Defense Interoperability Communications Exercise (DICE) in 2006, at the DoD Joint Interoperability Test Command (JITC) in 2007; and is FIPS 140-2 validated

Scalable - No limit to the size of your network

Disaster-Proof - Completely distributed, resilient networks that are not dependent on fixed infrastructure single points of failure

Open - Seamlessly supports existing IP applications

Tactical Networking

A NEW APPROACH TO NETWORKING



- **Avoid costly IT development** – CoCo Node combines MANET, VPN, and distributed infrastructure capabilities to save you time and money on in-house integration. All standard IP-based applications will run seamlessly on top of the CoCo overlay.
- **Deploy quickly** – A quick install process using one-click Windows setup, Debian repositories and support ensure deployment is easy, fast, and straightforward.
- **Build your own devices** – CoCo software is OEM ready and runs on Windows Mobile, Windows XP, and Linux, enabling OEMs to build their own custom mobile, secure, MANET devices.
- **Add mobility to your existing devices** – CoCo software runs on many platforms, PCs, and IP-enabled devices to extend your enterprise applications into the most difficult to reach environments. CoCo solves mobility problems even in situations where Mobile IP and IPv6 are challenged.

Version

4.6

Operating System Support:

Windows XP SP2, SP3, Windows Server 2003 SP1, SP2, Windows Mobile 5.0 & 6.0, Linux

Wireless Card Support:

3G, IEEE 802.11 (900MHz, 2.4GHz, 4.9GHz, 5GHz)

Multicast Support:

IGMP, PIM interoperability

Default Security Configuration:

- End-To-End Cryptography
Pluggable Cryptographic Suites - Default Algorithms: AES-128, Diffie-Hellman, Key Exchange, SHA-1; other algorithms possible
- Link Cryptography
Pluggable Cryptographic Suites - Default Algorithms: HMAC-SHA1, Diffie-Hellman, Key Exchange; other algorithms possible

Crypto Certifications:

FIPS 140-2 validated (cert. #1111)

FIPS 201 in process

Network Monitoring:

SNMP routing of standard MIB data

Evaluations:

JITC DICE 2006, 2007

Routing Algorithm:

CoCo proprietary modified distance-vector protocol

Mobile Routing:

Supports fixed and mobile nodes

Layer 2 Link Establishment:

Ethernet (802.3) or Wi-Fi links in a common broadcast domain

Layer 3 Link Establishment:

Over UDP/IP connectivity

Network Access Control:

Service & group-based access control

Type of Service Support:

Voice and video traffic prioritized ahead of data

Scalability:

Globally scalable – routing tables scale with $O(n \log(n))$, where n is the number of nodes in the network

Transport Independence:

Media agnostic transport mechanism extends mesh topologies to Ethernet

Transport Independence Handoff:

Seamless mobility and network resilience through transport independent handoffs and dynamic mesh reconfiguration

To learn more visit us at www.cococorp.com or call a CoCo sales representative at 1-866-575-4128



Copyright 2002-2010 CoCo Communications Corp. CoCo is a registered trademark of CoCo Communications Corp.

All rights reserved. Patents Pending. Specifications subject to change without notice.

CoCo Communications Corp. | 999 3rd Avenue | Suite 3700 | Seattle, WA 98104 | 206.284.9387 | www.cococorp.com