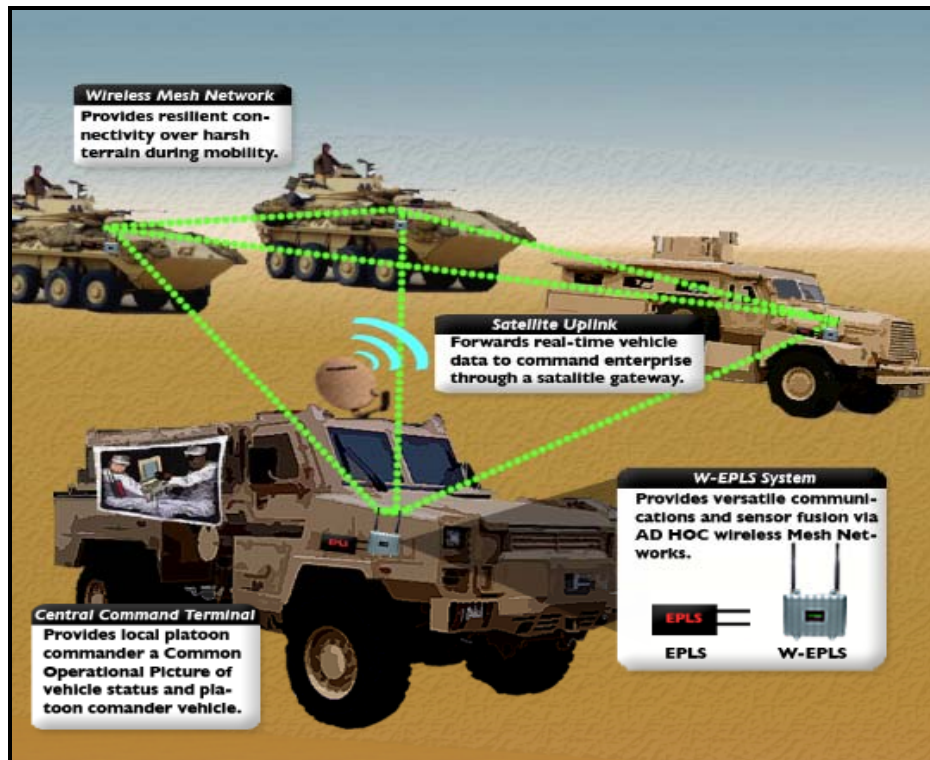


Wireless-Embedded Platform Logistics System (W-EPLS)



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Concentris
systems

Tech Enterprise 2009

sponsored by:

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projects of the Pacific International Center for High Technology Research

What is the Problem?

- Lack of robust real-time wireless connectivity between vehicles, central convoy command, and remote regional command during mobile operation
- Critical vehicle health data from onboard sensors not accessible to convoy commanders in real-time
- Current distributed service frameworks not engineered for dynamic, disruption-prone wireless mobile networks

Who has this Problem?

US Marines MARCORSYSCOM

US Army TARDEC

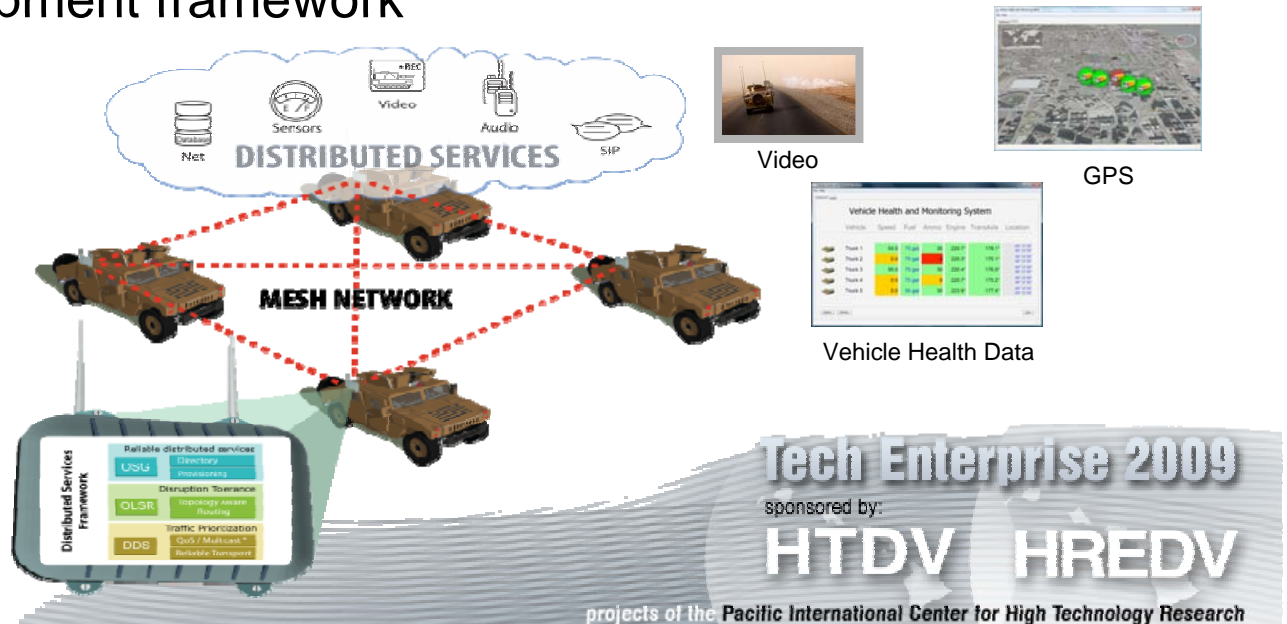
Solution

Wireless-Embedded Platform Logistics System

- Distributed services over resilient, disruption-tolerant mobile WLAN for real-time vehicle health monitoring and mobile comms
- Real-time data fusion from onboard sensors (e.g. fuel, ammo) and services (PTT, VoIP, video)
- Communicates critical vehicle information to convoy commander and to WAN Gateway/GIG/Ops Center
- Leverages COTS RapidLink wireless devices and RapidAPI application development framework



EPLS Sensors



Team

The Concentris team has hands-on experience developing, integrating, and commercializing cutting edge communications systems.

Tareq Hoque, President

- Founder, Firetide Networks
- President, Spirent Communications
- BS, MSc, MBA, Massachusetts Institute of Technology

Scott Valentine, W-EPLS and DSF Project Leader

- Engineer, Army TARDEC Warren MI
- 402nd AFSB Ballad, Iraq
- BS, Computer Science, University of Missouri - Rolla

Larry McCarthy, VP Operations

- Engineering management in banking, insurance and telecom
- BS, Electrical Engineering and Computer Science, University of Colorado
- MBA, International Business, Hawaii Pacific University

Status

Achievements to Date:

- W-EPLS System: Defined key vehicle parameters, performance objectives and communications requirements
- Distributed Services Framework: Developed CONOPS and Systems Architecture
- Received support for SBIR Phase II Fast Track application
- Designed and tested wireless MANET architecture

Next Major Milestones:

- Complete integration of W-EPLS proof-of-concept (9/09)
- Demonstrate proof-of-concept implementation with MEC (11/09) and COBRA Gold 2010 exercise

Company Profile

- Name: **Concentris Systems LLC**
- Date Founded: **2004**
- No of employees: **11**
- Business areas: ***Wireless Networks, Solid State Lighting, Electronics Design, Software Development***
- Latest projects:
 - **Distributed Service Framework for MANETs (SBIR A08-148)**
 - **Spectrally Dynamic Berth Light for Active Circadian Cycle Management (DARPA SBIR 08-055)**
 - **Remote Video Technical Consultation System (Tandberg Corporation)**
 - **RapidLink Mesh Networking System**
 - **MilMesh Frequency Translator Amplifier (FTA)**
 - **Whiter-than-White Lighting for Signage and Markings**
 - **Automatically Deployed Communication Relays (ADCR)**
 - **Mobile Wireless Mesh Networking Hardware and Software**