

Unified Communications in a Stressed Environment Technology Briefing

May 2011

Solution Goals

- Provide Unified Communications in a stressed environment
- Ensure first responders have access to their phone/data and internet applications even when commercial cell service is not available
 - Use the same device day-to-day and in a stressed environment
 - Have access to all normal email and phone contacts at all times
- Provide added capabilities not currently available that will enhance Command and Control

Previous Challenges

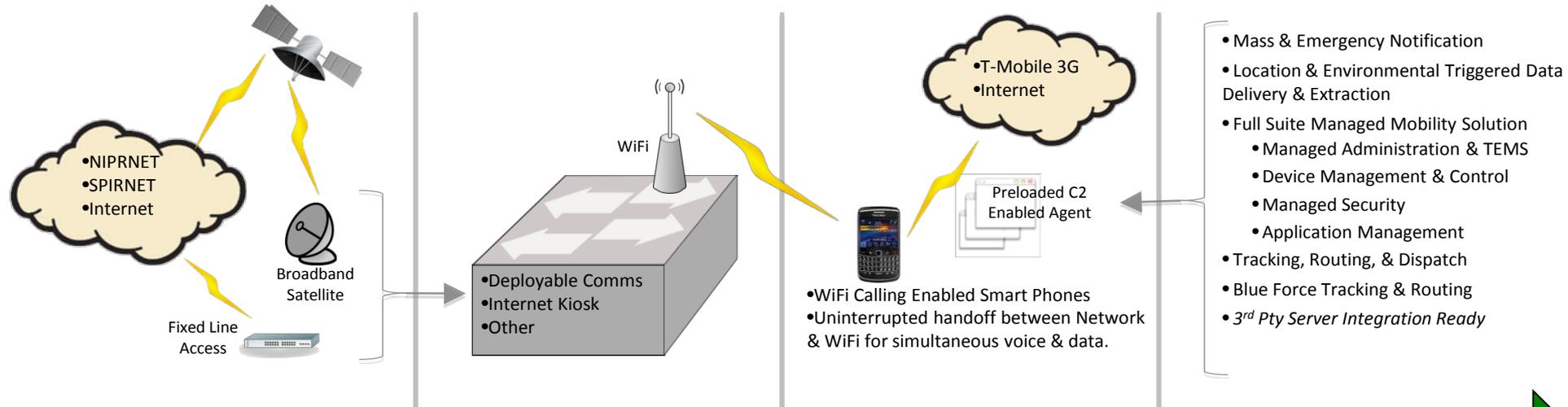
- Command and Control of equipment and personnel
 - Equipment deployed to the right location - monitoring status/location while enroute and estimated ETA at incident site
 - Personnel location and status not easily monitored

Backhaul to Core

Deployable Comms

Wireless Carrier Partner

Added Value – Services



- NIPRNET
- SPIRNET
- Internet

Broadband Satellite
Fixed Line Access

- Deployable Comms
- Internet Kiosk
- Other

WiFi

- T-Mobile 3G
- Internet

Preloaded C2 Enabled Agent

- WiFi Calling Enabled Smart Phones
- Uninterrupted handoff between Network & WiFi for simultaneous voice & data.

- Mass & Emergency Notification
- Location & Environmental Triggered Data Delivery & Extraction
- Full Suite Managed Mobility Solution
 - Managed Administration & TEMS
 - Device Management & Control
 - Managed Security
 - Application Management
- Tracking, Routing, & Dispatch
- Blue Force Tracking & Routing
- 3rd Pty Server Integration Ready

Reliable Connectivity...

...Anywhere You Are...

...On Your Everyday Devices...

...with Mission Critical Tools.

- Global Network of Private Teleports
- Fixed Satellite & VSAT Solutions
- Mobile Satellite Solutions
- Network & Terrestrial Solutions

- Secure Wireless Network
- Critical Communication Anywhere, Anytime
- Secure WLAN tech reaches remote, mobile, & hard-to-wire locations

- GSM Services via 802.11
- FIPS on Wi-Fi & Access Points. DISA Tested & Wireless STIG Approved
- Cellular & Wi-Fi Network Handover Using COTS
- WiFi calling minutes
- Unprecedented Reduction in Mobile Costs

- C2 Enabled Phones with Integrated COOP & Situational Awareness
- Location & Event Triggers Automate Control
- Simplify Mobile Procurement, Provisioning, Inventory, Billing, Device Management, & Security in a Single Console

Wide-Area Communications With No Backhaul Infrastructure

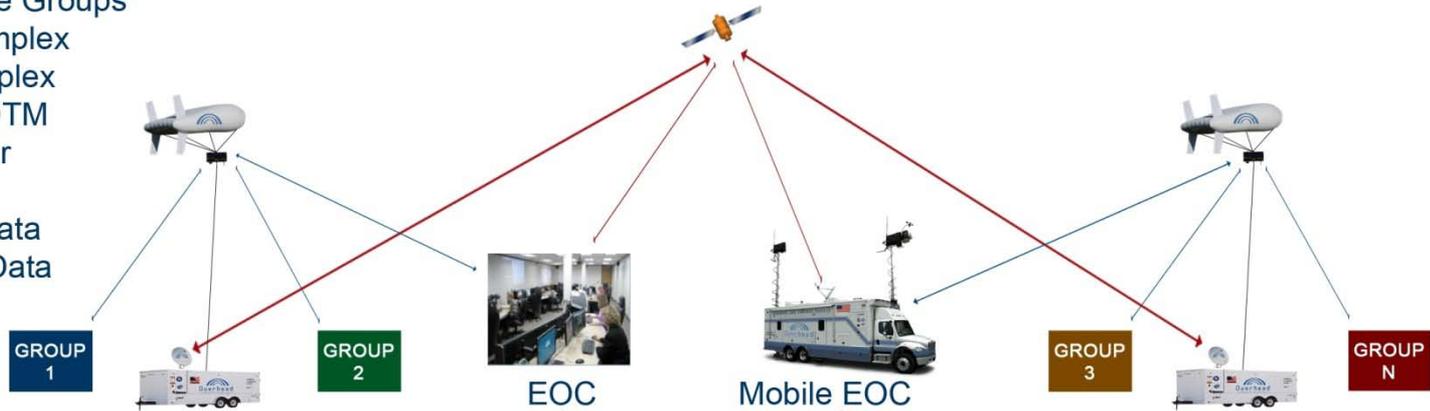
Multiple Groups
RF-Simplex
RF-Duplex
LMR/DTM
LAN Data



Airborne payload with no terrestrial or satellite communications connection will provide RF communications interoperability and repeating

Wide-Area Communications With Satellite or Ground Based Backhaul Infrastructure

Multiple Groups
RF-Simplex
RF-Duplex
LMR/DTM
Cellular
VOIP
LAN Data
WAN Data



Optional Ground Based Backhaul

Infrastructure Provider Of Your Choice