

**Integrated multi-Domain / US / NATO
Air / Ground / Sea C4I System
Now using AWS Gov Web Services**



Introduction to AGIS / LifeRing



After 9/11, we all learned that many lives were lost as a result of a breakdown in communications between the various different agencies that responded to this tragedy.

Hundreds of first responder agencies working within a few blocks of each other...all using different radios, channels, frequencies, encryptions and procedures...unable to communicate with each other.

We realized that:

- Smartphones had the capability to provide a common communication tool necessary to effectively enable all these responders to share voice and data communication with one another.

- Software could provide an interface and tool set for setting up groups and efficiently sharing information

- IP communications would enable digital Push to Talk (PTT) preserving radio functionality.

- For such a system to be viable for a large Market, it had to operate on a combination of First Responder radios, Cellular, Military, Iridium Satellite, MANET and other communications.

- That we could design the system to be work with Low Speed and High Speed Communications and to utilize a Server to forward data between Smartphone and PC devices.

In 2004, we developed LifeRing software to provide a Common Operational Picture to each user. Our first contracts ended up being with a Police force and a major DOD contractor who wanted to investigate its use for C4I.



What is LifeRing?



LifeRing -

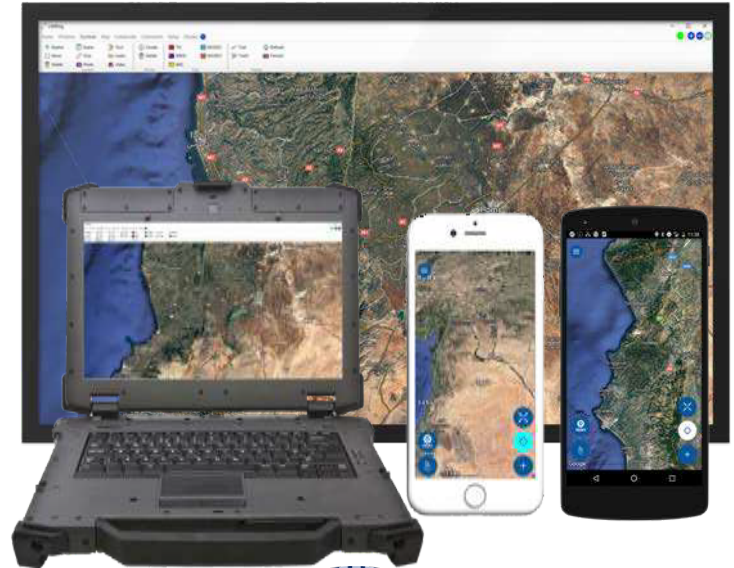
Scalable C4I Common Operational Picture (COP) system. Used by the U.S. Joint Chiefs of Staff J6 C4AD, DIA, Australia, other Militaries and DHS. LifeRing operates in either a military or First Responder mode. LifeRing runs as a downloaded App or as a Web Client.

LifeRing's Server is either a customer provided Laptop Server or a rack server or operates on Amazon Web Govcloud that is CJIS, FISMA and FedRamp Compliant.

LifeRing's PC Windows User Interface (UI) modeled after Microsoft's suite of programs with its familiar look and feel. **LifeRing's Smartphone Android and iOS** UI is modeled after Google Maps.

LifeRing's Multi-Domain Data Link (MDDL) enables Translation and Forwarding of data received from one C4I System to other C4I systems providing all an Integrated COP.

- AES 256 bit Encryption on PCs, Android, and iPhones.
- Uses Military Radios / Cell / SATCOM in any combination.
- Exchanges Location data, Emergency notifications, Messaging, Chat, PTT, Full Motion Video, Geo-fences, Whiteboarding, Commands, Medical and Logistics information.
- Seamlessly Interfaces with Aircraft, Ships, JBC-P, AFATDS, CWCS, NATO, Laser Designators, radars, tracking tags, AIS, etc.



LifeRing Provides Downloaded App and Web Client System that Provides Interoperability with Many Datalinks and Sensors

IMPLEMENTED AND AVAILABLE INTERFACES

SENSORS

- ELINT
- FAA AND OTHER RADARS
- SEISMIC
- AIS, AISI
- SHOT DETECTOR

US MILITARY DATALINKS

- Link -16
- JVMF
- CoT
- OTH GOLD
- SARIR

NATO MILITARY DATALINKS

- NVG
- ADEM
- NFFI
- APP-11D

DHS DATALINKS

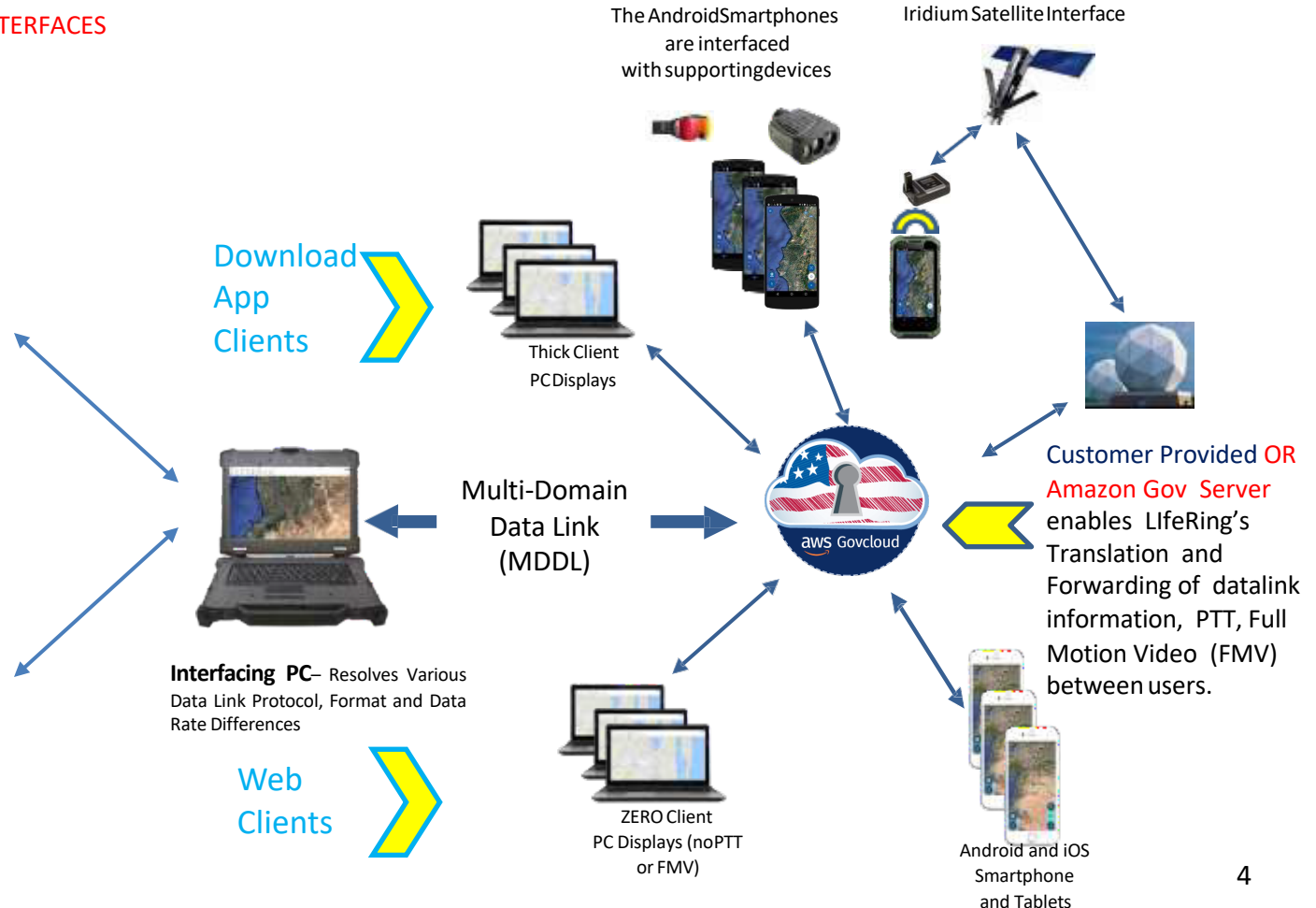
- COMMON ALERTING PROTOCOL

LOGISTICS AND MEDICAL INTERFACES

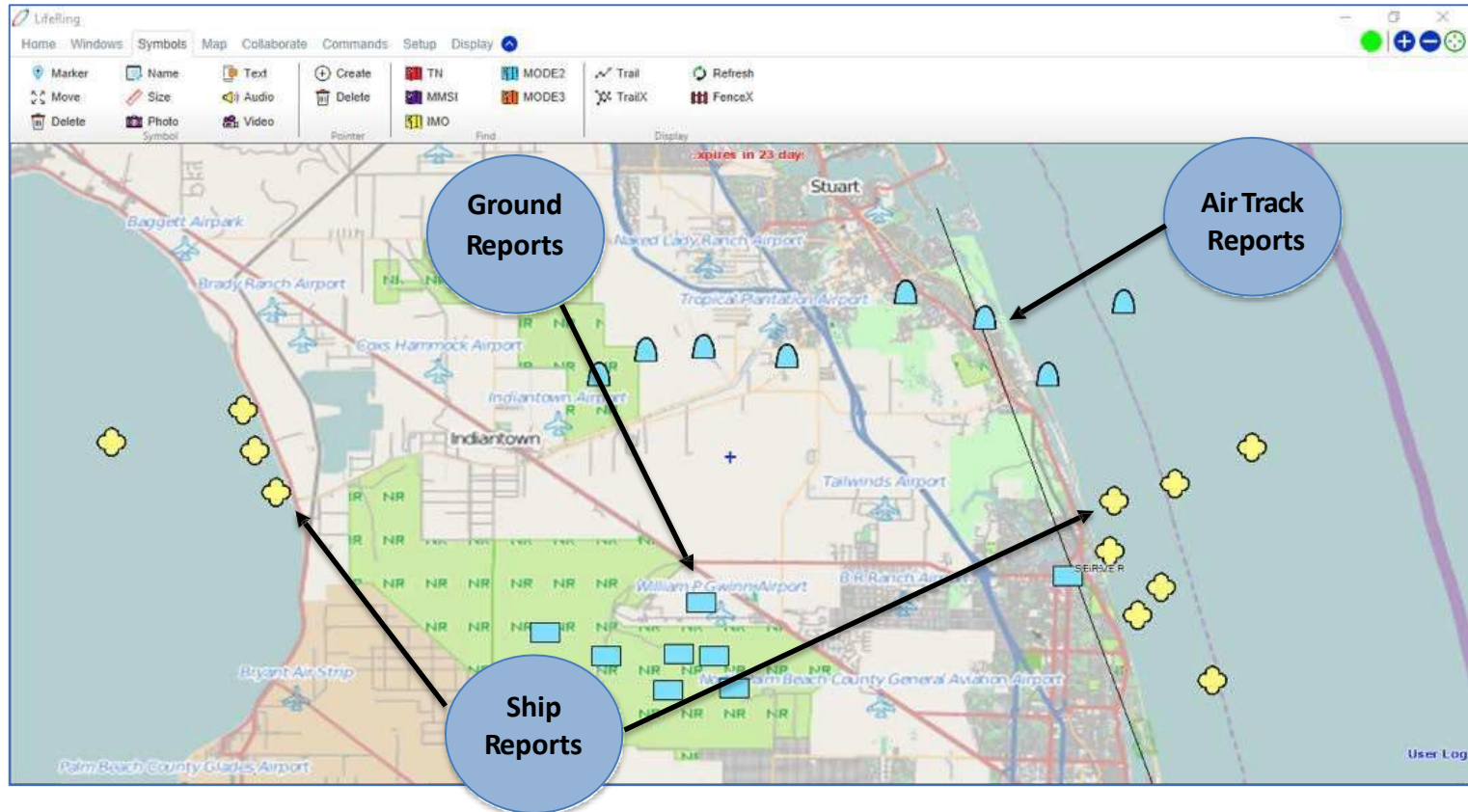
- SAP – LOGISTICS
- ELEKS - MEDICAL STATUS

GPS TRACKING TAGS

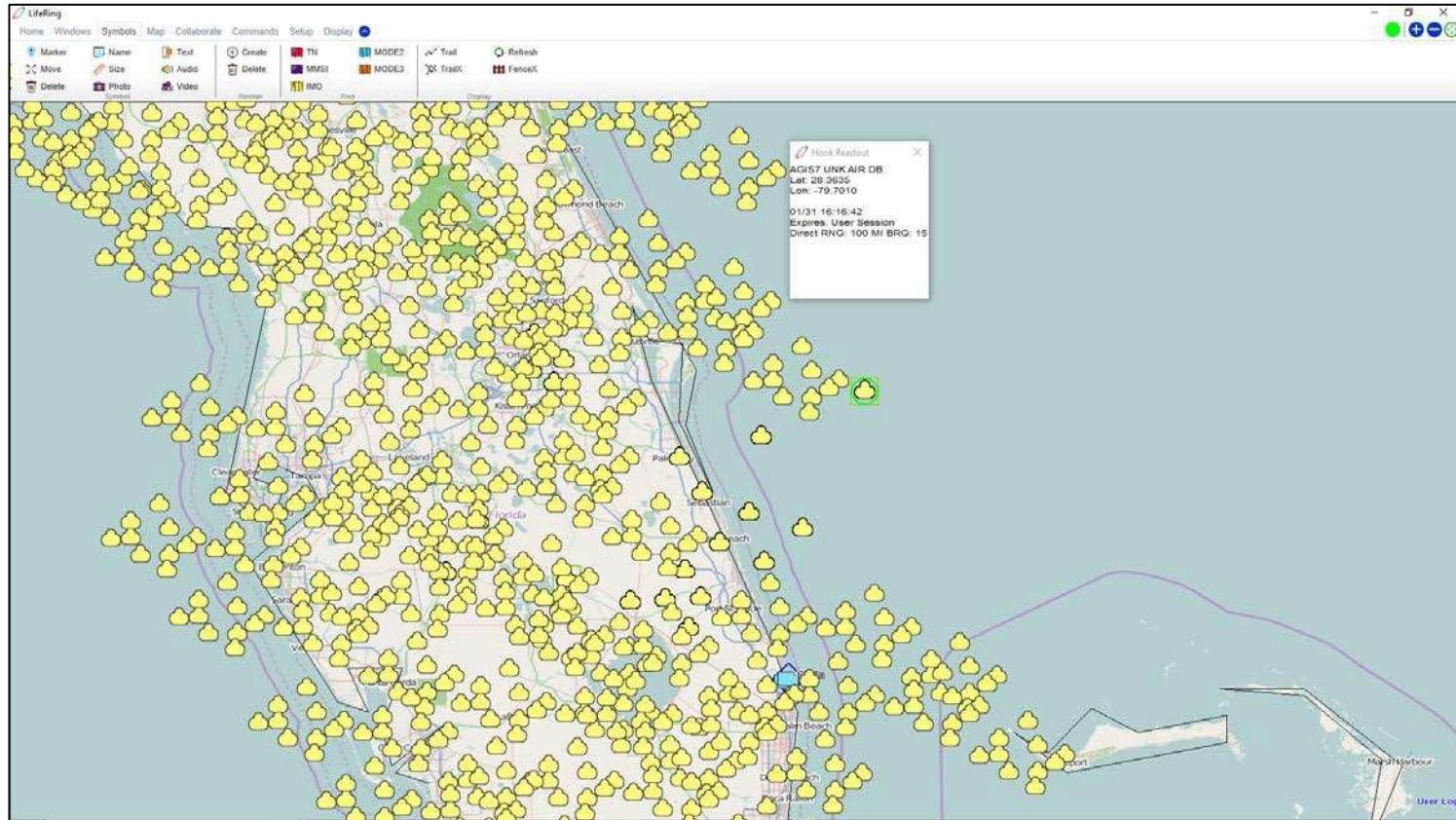
- SPOT, CORNERTURN, NAL



LifeRing Integrated Multi-Domain Air / Ground / Sea COP

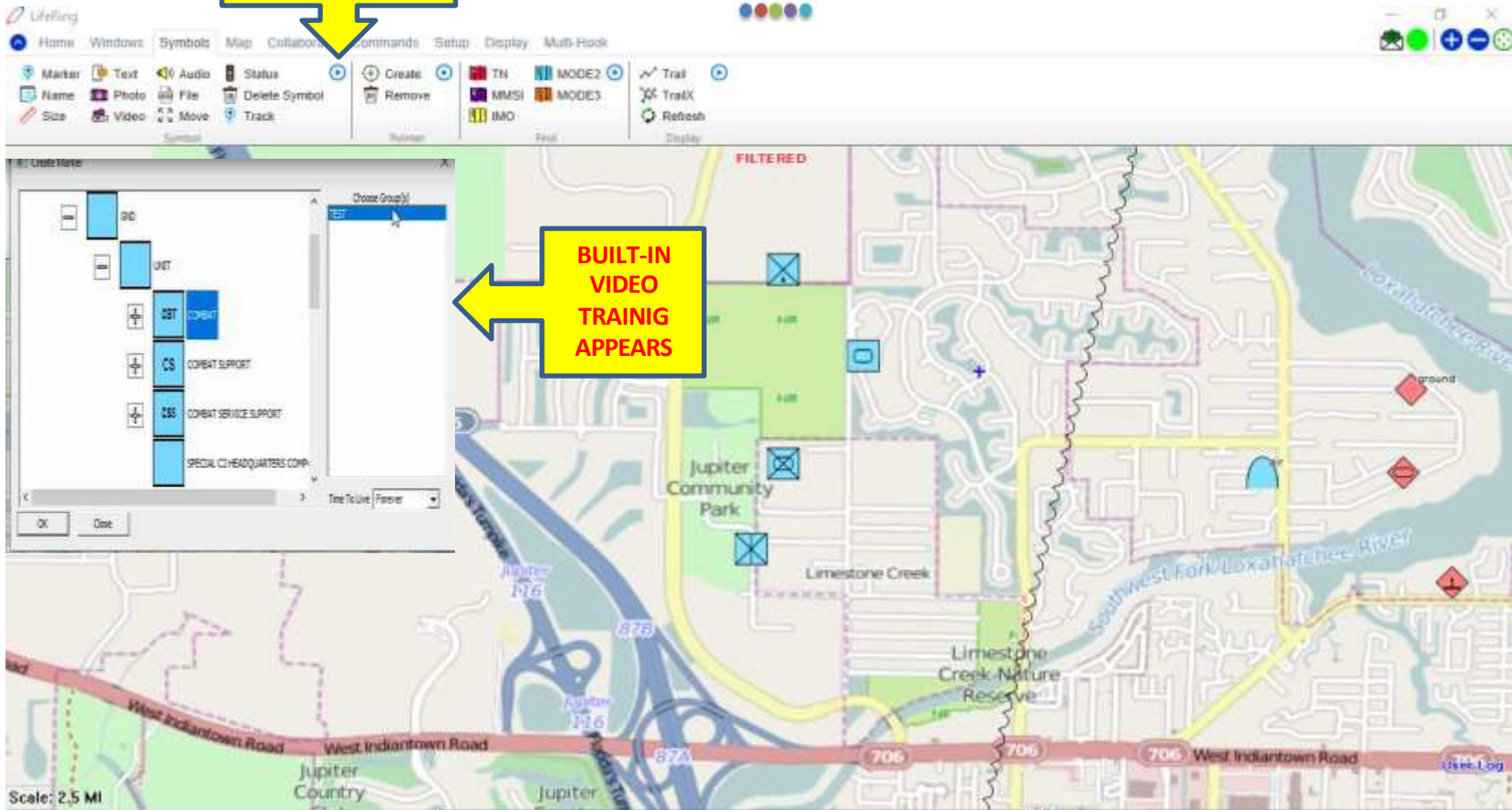


LifeRing Processes Massive Amounts of Data Radar Example



Unique Feature Integrated Video Training

CLICK FOR BUILT-
IN VIDEO
TRAINING



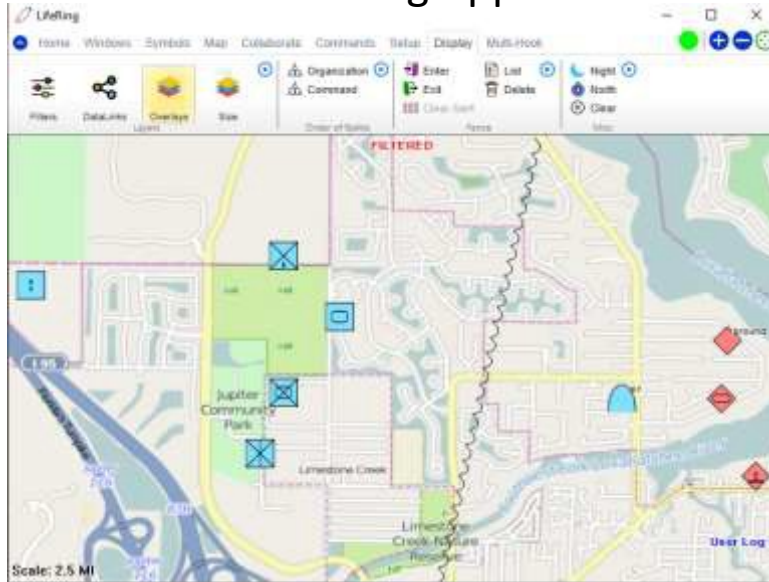
Unique Feature

LifeRing Thick App and LifeRing Thin Client Web Client are Interoperable

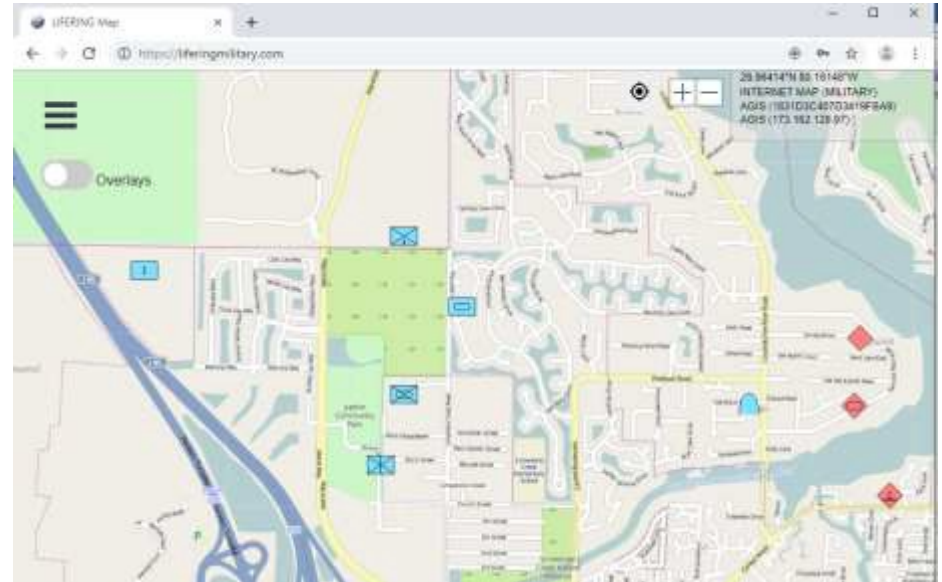
Integration Largely Completed



LifeRing App



LifeRing Web Client



Unique Feature

Commander's Display Tactical + Video from Multiple Sources



Symbols on the display indicate to the Commander who is taking Videos. The Commander can select to view up to 8 simultaneous Video Feeds



How LifeRing Provides Up and Down the Chain of Command Communications



Communications Up, Down and Across the Chain of Command

BATTALION

- LifeRing enabled PC with Large Display
- PRC Radio

COMPANY

- LifeRing enabled PC
- Harris and Motorola Radios including the AN/PRC 117

PLATOON

- LifeRing enabled Tablet
- AN/PRC 152A Radio
- AN/PRC 154 Radio

SQUAD/FIRETEAM

- LifeRing enabled Smartphone
- AN/PRC 154A Radio
- Other radios

Integrated LifeRing COP Up and Down the Chain of Command



LifeRing Communications and Sensors Integration

Integration



Lifering is a Many-to-Many C4I System Allowing Each User to Communicate Using Various Features While Interfacing with:

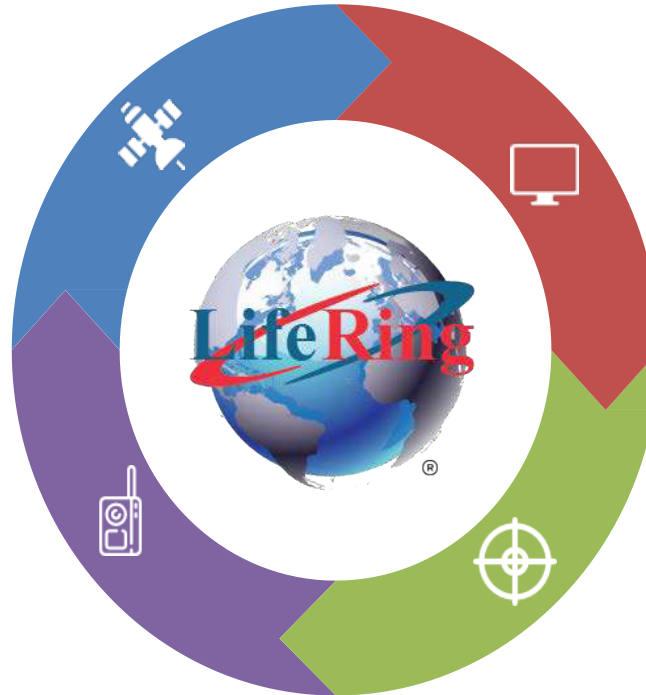


Sensors

- Radars
- AIS
- UAVs
- Laser Target Designators
- Satellites, IBS
- Airborne Collection Platforms
- Covert Tracking Tags
- Goggles
- PTT Headsets
- External Cameras
- Radiation Sensors

Radios

- Military Radios
- 1st Responder Radios
- Iridium Satellite
- Thuraya Satellite
- MANETS
- Cellular
- Band 14 Cellular



C4I System

- Interoperates with other C4I Systems
- Translates and forwards Data between C4I Systems
- Ground (JVFM, CoT)
- Aircraft (Link 16, SARIR)
- Ship (OTH Gold, Link 16)
- NATO (NFFI, STANAG 4677, NVG, JCHAT, ADEM)

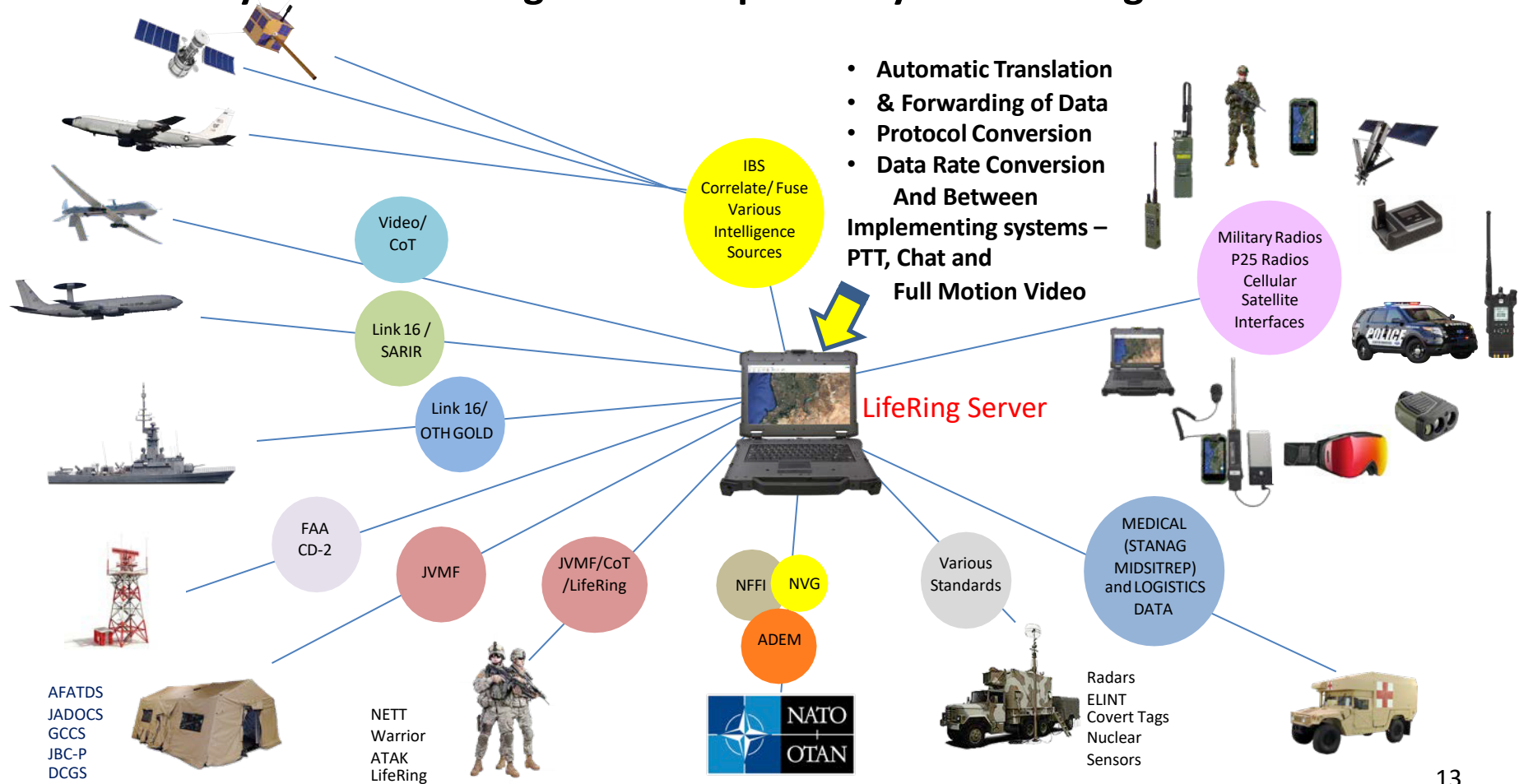


Weapons Systems

- Fighter Aircraft
- AFATDS (JVFM)
- Infantry (JVFM, CoT)



LifeRing Resolves Data Link Differences US Air Ground Sea and NATO C4I Systems Providing ALL Interoperability and an Integrated COP



Interoperability

In Use LifeRing C4I Command Center

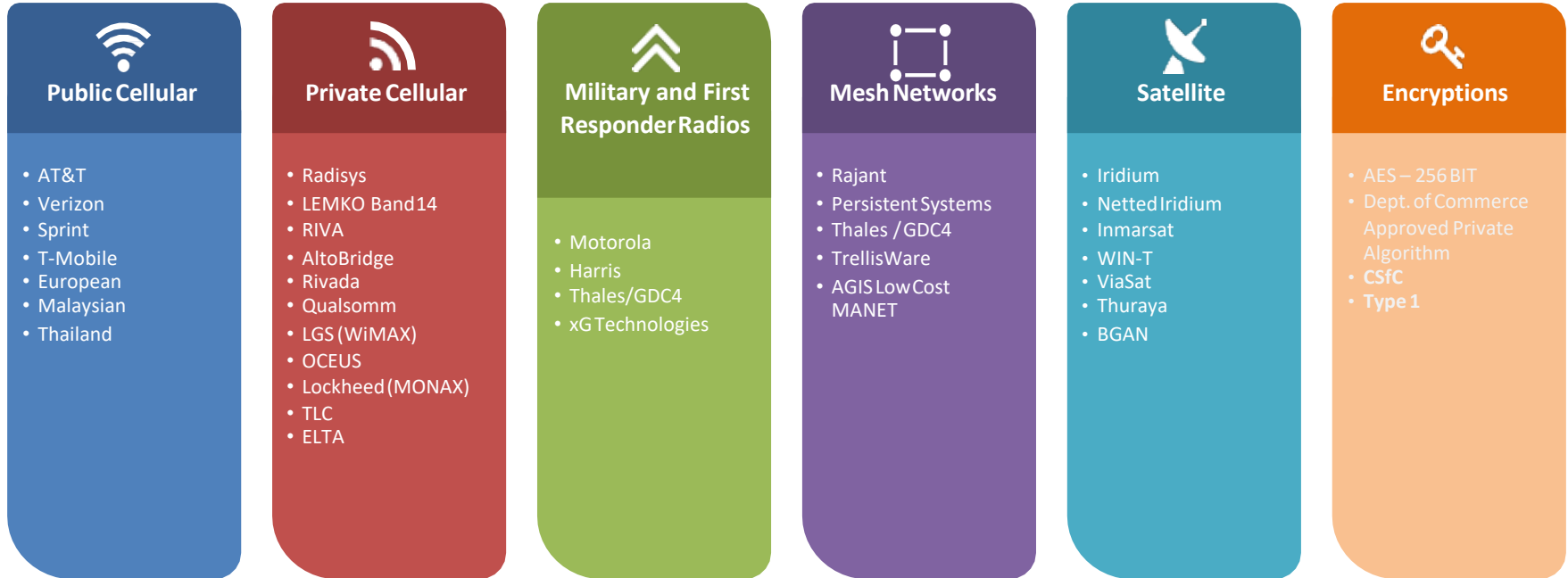


Photograph of Delivered LifeRing System



LifeRing Communication and Encryption Types

Integration

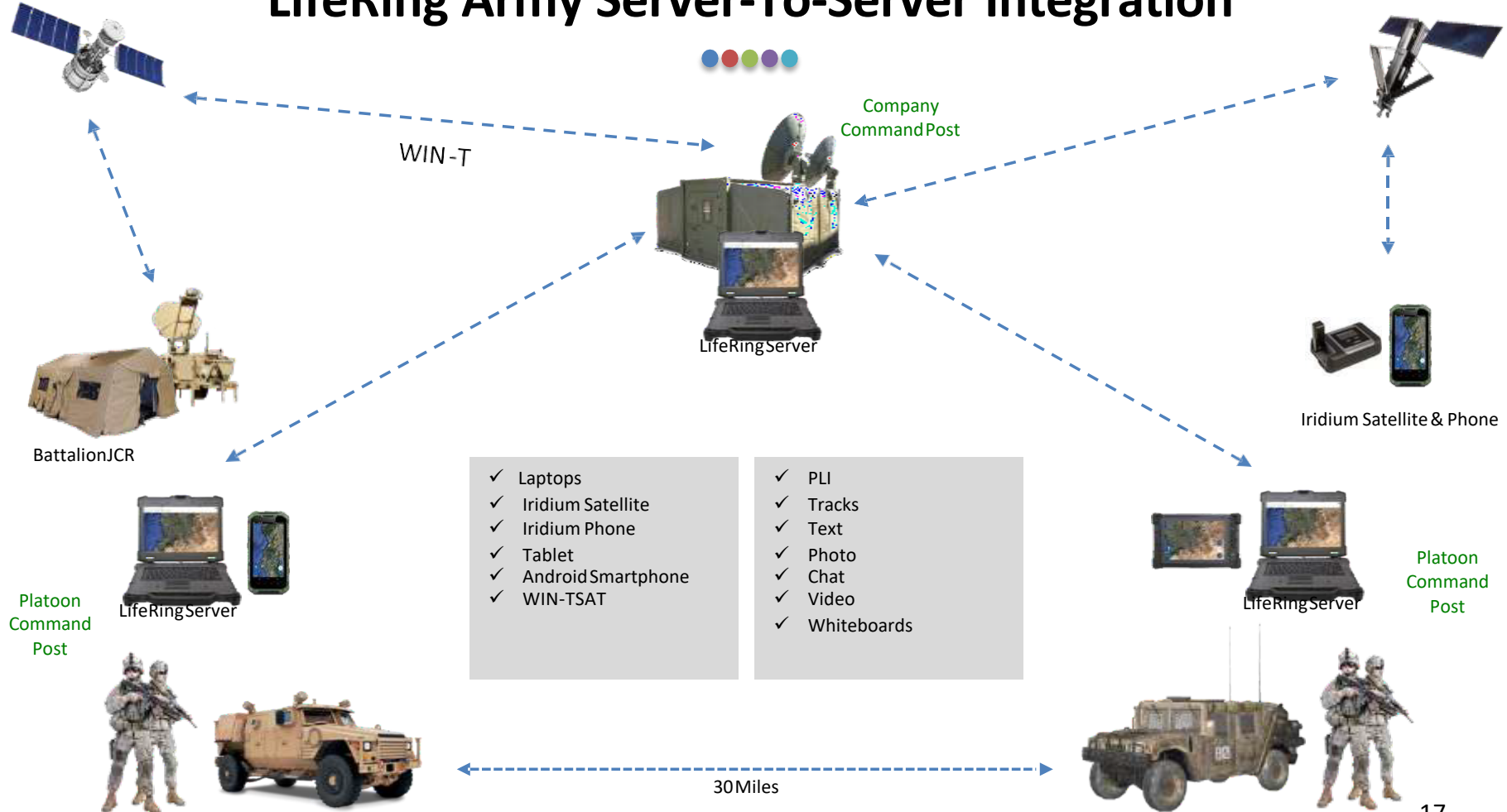


LifeRing has successfully used all the above communication types in various combinations

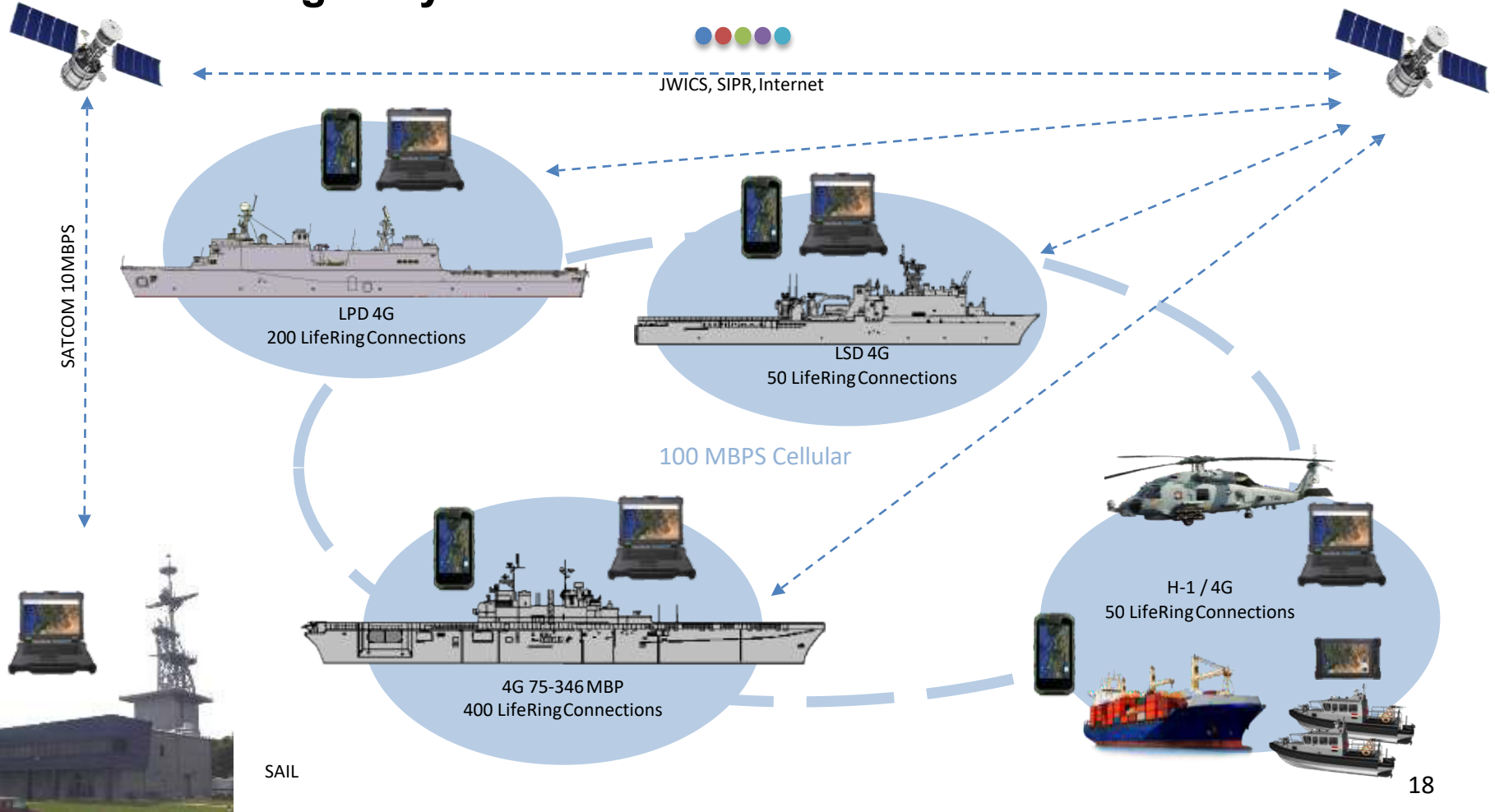
A Few LifeRing Live Exercises



LifeRing Army Server-To-Server Integration



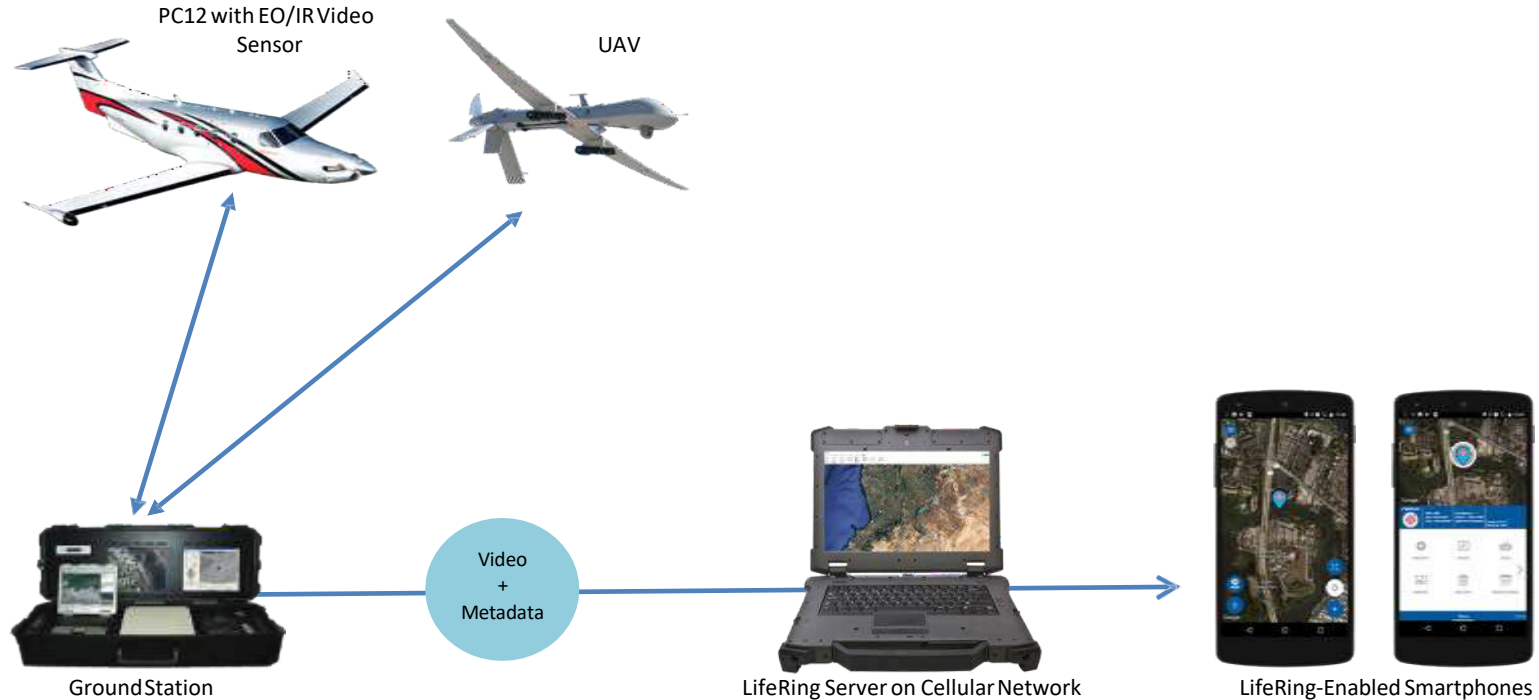
LifeRing Navy SPAWAR Cellular / Satellite Demonstration



Aircraft Exercise US JCS Aircraft/UAV Video Distribution Exercises



All smartphones exchanging data and selectively sending video from Aircraft and UAVs to LifeRing network



Unclassified SAR Radar Satellite Data Exercise



LifeRing Processing Data From AIS Ship Reports and Commercial Radar Satellite Data for USN



Designed to Meet the Cycle of Military Operations



Some of LifeRing's Features



- Runs on PC's, Tablets, Android and iPhone Devices
- Real time Common Operational Picture (COP)
- Integrated Push-To-Talk
- Integrated Full Motion Video
- Operates as an App or Web (Thin) Client
- Emergency Notifications
- Built-in Help Videos
- Request Immediate Position Report
- Response Required Commands to Clear Screen
- Works with or without Internet
- Ability to operate with or without a Server
- Server to Server Communications
- Server Failover
- Data Recorded and Time Stamped for Analysis
- Digital Geo-Fence Crossing Alert
- Geo-Positioned Photos
- Medical and Logistics Data
- Integrated Worldwide Street Maps
- Maps Automatically Downloaded or Pre-Stored
- Share Photographs with Text
- Tap Map to enter Geo-Positioned Marker
- Pre-Stored Tactical Mission Data
- Join Various Groups
- Send/Receive Messages and Chat
- Whiteboards
- Communications denied environment. Entered Data automatically synchronized when communications are established
- Window User Interface for PC, Google Maps type User Interface for Android and iPhone
- Mission Replay Data
- Interface to NGA Snowball
- Nautical charts for USA waters

Brief Examples of LifeRing Used Successfully



| Company/Organization | Description of Usage | Locations Used | Purpose |
|---|---|--------------------------|--|
| ADI Tech. DOE (Dept. Of Energy) | First Responders | Washington, DC | Disaster Response |
| OCEUS | USS Fort Worth | ASIA | Operations |
| Defense Intelligence Agency (DIA) | Training | Quantico, VA | Training |
| US Navy NAVAIR | Ground, Air, Ship, Sub Data Display | SAIL Facility, Pax River | Test Facility Use |
| US Navy - Sub to OCEUS | Install LifeRing on 3 USN Ships | Norfolk, VA | Pirate Interdiction |
| JCS J6 C4AD | Multiple Bold Quest and Net Work Integrations, Evaluations, and other deployments | Suffolk, VA | Jolted Tactics |
| JCS (Joint Chief of Staff) | CWIDs (Coalition Warrior Interface Demonstrations) | Various Locations | Demonstration of State of Art |
| Special Forces | TNT Exercises | Various US Locations | Demonstration of State of Art |
| Honolulu Police Dept. and Others | President Obama's (APEC) Asian Pacific Economic Council meeting with Asian Heads of State | Hawaiian Islands | US Joint Agencies protection of President and other Heads of State |
| ARMY and Motorola | ARMY National Integration Evaluation (NIE) 12.1 | FBTX and WSMR | Demonstration |
| US Navy NCIS | President Obama's Inauguration | Washington, DC | Protection of the President |
| Tactronics for Special Forces Operation | Surveillance and tracking combined with Harris Radios | Middle East | RESTRICTED |
| AAR Brown | Gustav and Ike Hurricane Response | Huntsville, AL | Disaster Response |

Letter of Recommendation

DOD

Joint Tactical Networking Center
San Diego, CA



DEPARTMENT OF DEFENSE
JOINT TACTICAL NETWORKING CENTER
33000 NIXIE WAY, BLDG 50, ROOM 339
SAN DIEGO, CALIFORNIA 92147-5110

DEC 03 2012

Mr. Cap Beyer
AGIS, Inc. (Life Ring)
92 Lighthouse Drive
Jupiter, FL 33469

Subject: Letter of Appreciation

Dear Mr. Beyer:

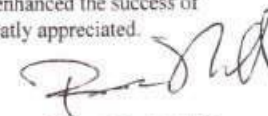
The Joint Tactical Networking Center (JTNC) would like to take this opportunity to acknowledge the contributions and participation of Life Ring in the Wideband Networking Waveform (WNW) Performance and Interoperability Quick Look (WIQ) Field Test.

The professionalism and knowledge of the testing process and field management was a major contributor to the success of the WIQ 3 field test event. During the WIQ events, Life Ring mastered the art of coordination between the radio operators and the test director, maintained control and directed radio operators to their designated test roles, directed mobile units and ensured test operations went smoothly. The awareness of radio status and assigned radio roles contributed to completion of test cases with minimal delays.

We appreciate the tireless hours of service dedicated to ensuring that the test event was completed. The dedication, hard work and commitment significantly enhanced the success of the WIQ Field Test. Life Ring's participation in the test event was greatly appreciated.


Mark Compton
JTNC Director


CAPT Kevin Peterson
JTN Program Manager


Richard North, PhD
JRIL Director

Letter of Recommendation

Honolulu Police Dept. President Obama's Visit

POLICE DEPARTMENT
CITY AND COUNTY OF HONOLULU
801 SOUTH BERETANIA STREET - HONOLULU, HAWAII 96813
TELEPHONE: (808) 528-3111 - INTERNET: www.honolulu.gov



PETER S. CARLISLE
MAYOR

LOUIS M. KEALOHA
CHIEF

DAVE M. KAHINGA
MARIE A. MCCAGLEY
DEPUTY CHIEFS

OUR REFERENCE: CK-JK

February 3, 2012

Mr. Malcom Beyer, Jr.
Chairman/CEO
AGIS
177 North US Highway One, Box 300
Tequesta, Florida 33469

Dear Mr. Beyer:

On behalf of the men and women of the Honolulu Police Department (HPD), I would like to express our sincere appreciation to you and your personnel for the outstanding partnership that we shared in preparing for and during the 2011 APEC meetings.

Your assistance greatly helped us in our efforts to ensure the security and safety of the public, the world leaders, and the other attendees during the APEC meetings that were held from November 7 to 13, 2011. The success of our law enforcement and security operations was the result of everyone working together, and the HPD was very fortunate to have had your support.

Mahalo nui loa and best wishes.

Sincerely,


LOUIS M. KEALOHA
Chief of Police

Serving and Protecting With Aloha



Contact Us



beyerm@agisinc.com



561-744-3213



www.agisinc.com

To see LifeRing in action, check out our demo videos at www.agisinc.com/videos

M a d e i n t h e U S A b y U S C i t i z e n s