



Integrated multi-Domain Air / Ground / Sea C4I System



What is LifeRing?



**A scalable C4I Common Operational Picture (COP) system.
Used by the U.S. Joint Chiefs of Staff J6 C4AD, DIA, Australia,
other Militaries and DHS.**

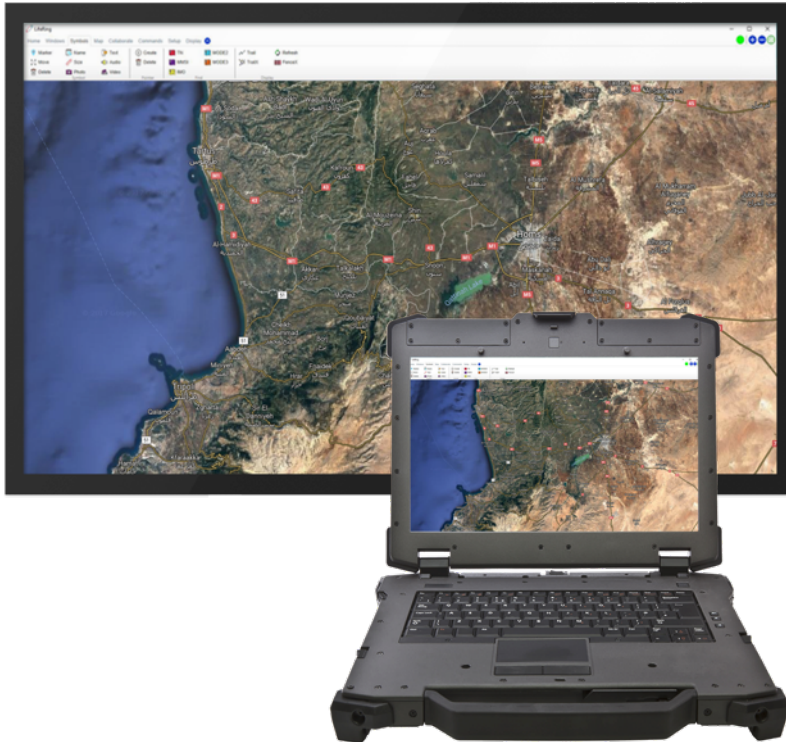
LifeRing:

- Low Cost, Integrated, Familiar and Simple to use.
- Securely operates with PCs, Android, and iPhones.
- Uses Cell / Radios / SATCOM in any combination, and is encrypted.
- Exchanges location data, Emergency notifications, Messaging, Chat, PTT, Full Motion Video, Geo-fences, Whiteboarding, Orders Medical and Logistics information.
- Seamlessly Interfaces with Fighter Aircraft, Ships, JCR, AFATDS, CWCS, NATO, Laser Designators, radars, seismic and shot detectors, tracking tags, AIS, etc.
- Translates and Forwards data received from one C4I System to other C4I systems so that they all have a Common Operational Picture (COP).
- Provides Interoperability between U.S. C4I systems and Interoperability with NATO systems and others.
- **Provides Military / First Responder Interfaces**
- **Works with customer provided Servers or AWS**



Devices

LifeRing Operates on Windows PCs



Intuitive Interface

Modeled after Microsoft's suite of programs to provide an readily familiar look and feel that make operations, set up and training fast and efficient.



Full Functionality

Multi-layered software with a full suite of command, communication, tracking and mapping tools, PTT and Video



Command Ready

Turn a single laptop or desktop along with a large screen display into a small Command Center with Common Operation Picture Capabilities. Uses Military and First Responder Radios, cellular, and Handheld Satellite communications in various combinations.

Provides the ability to establish Groups that enable communications between PCs.



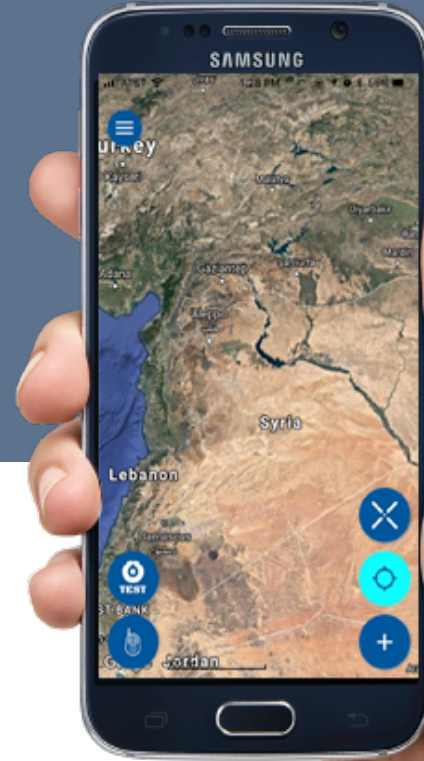
**Operates on either customer provided Servers
Or on Amazon Web Services Servers**

LifeRing Operates on Smartphones

Android and iOS Smartphones and Tablets are a perfect partner for PC based Command and Control Systems as they are/have:

- Lightweight
- Large Display Screen
- Multitasking Operating System
- Rugged
- Low Replacement Cost
- Voice & Data (Cellular, WiFi, Bluetooth)
- Integrated High Resolution Display
- Internal GPS and Audio Alerts
- Cameras, Compass, Accelerometer, and Gyro

LifeRing software provides encryption communications enabling these devices to act as handheld C4I Communications systems with 90% of the functionality of the LifeRing PC including built-In PTT and Video transmission and reception. Works with Android and iOS Smartphones and Tablets.



SMARTPHONES USERS TODAY



Already have their own device



Already have their own Voice & Data service plans (Cellular, WiFi, Bluetooth)

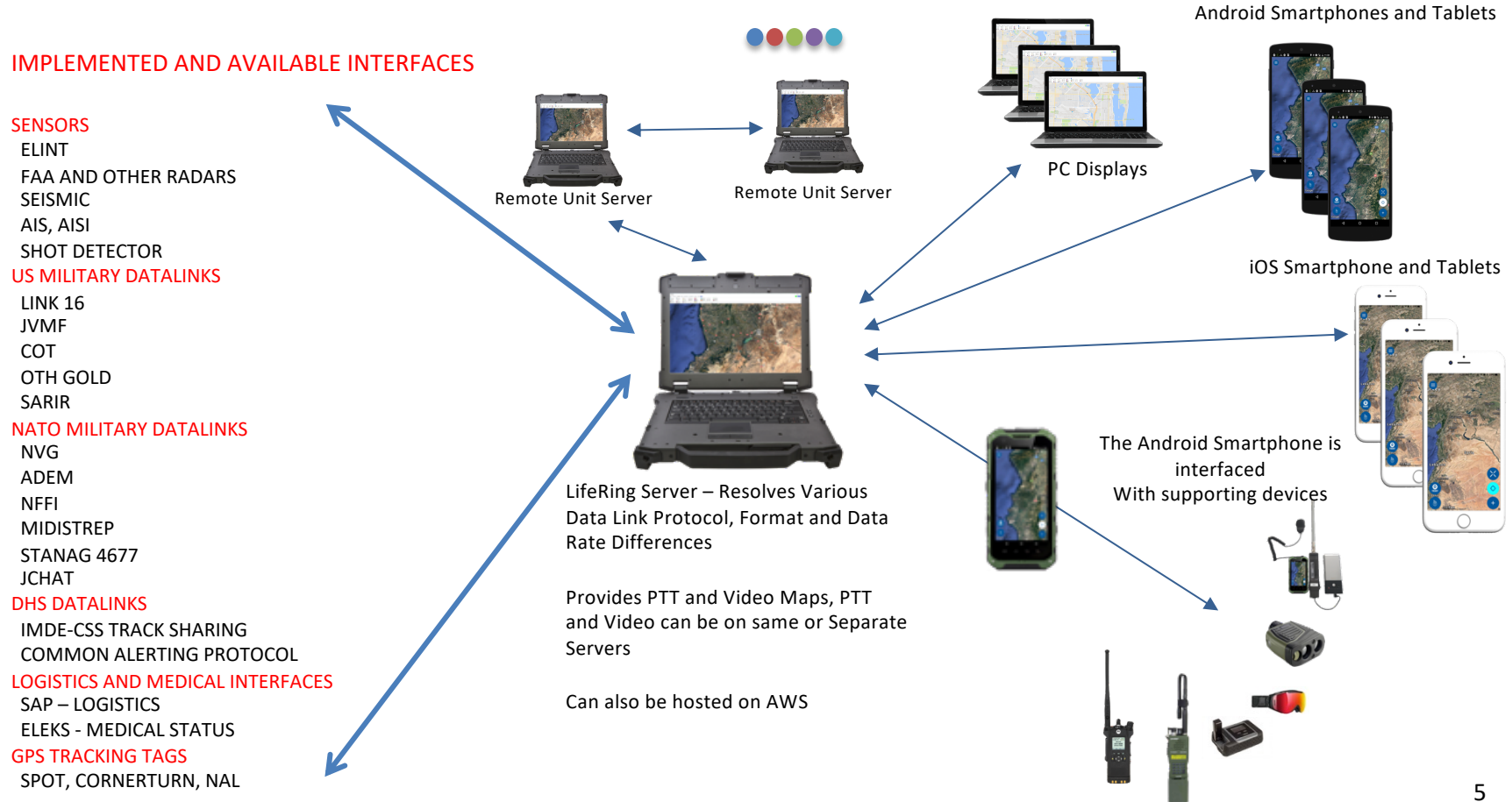


Are trained and knowledgeable on their own device



Typically have their own device with them at all times

LifeRing Using Customer Devices Provides Interoperability with Many Datalinks and Sensors



LifeRing Using Amazon AWS 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
MIDISTREP
STANAG 4677
JCHAT

DHS DATALINKS

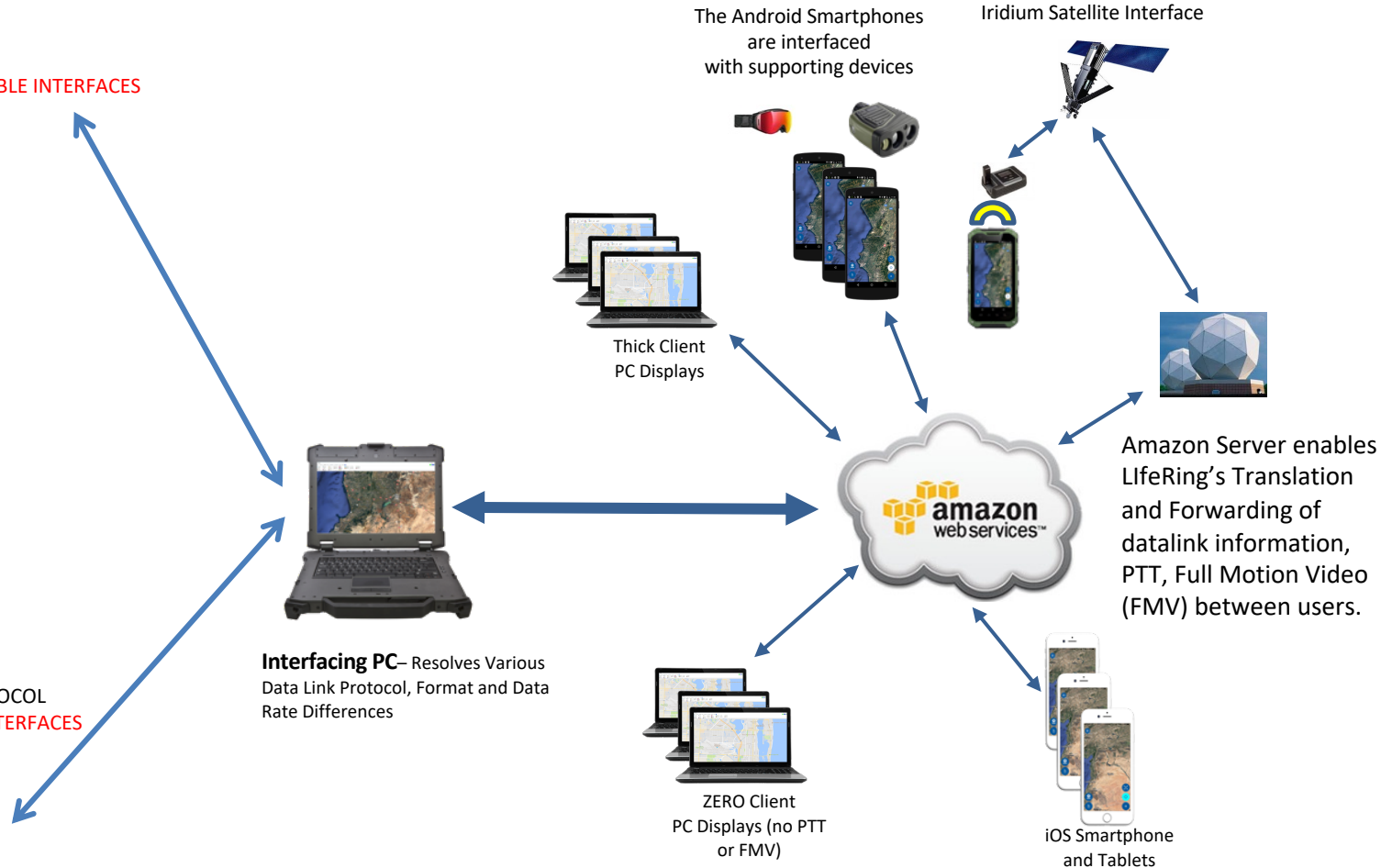
IMDE-CSS TRACK SHARING
COMMON ALERTING PROTOCOL

LOGISTICS AND MEDICAL INTERFACES

SAP – LOGISTICS
ELEKS - MEDICAL STATUS

GPS TRACKING TAGS

SPOT, CORNERTURN, NAL



How LifeRing Provides 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

LifeRing Communications and Sensors Integration



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

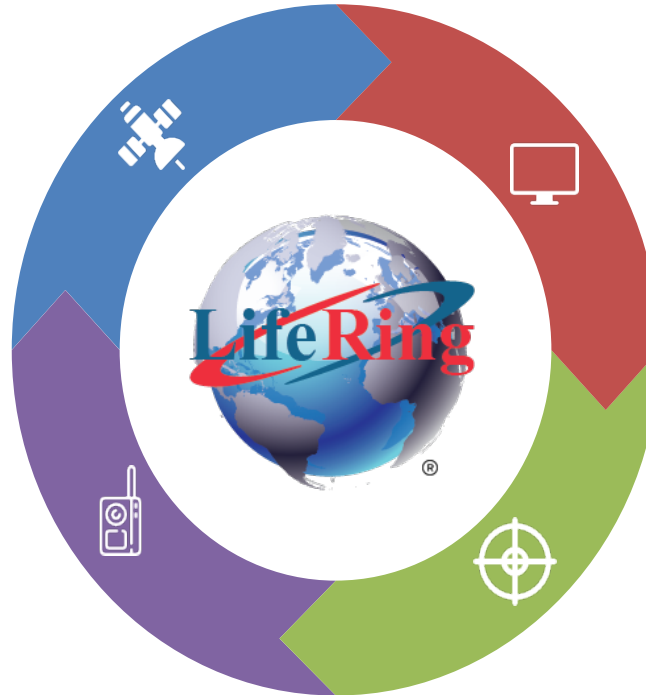


Sensors

- 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)

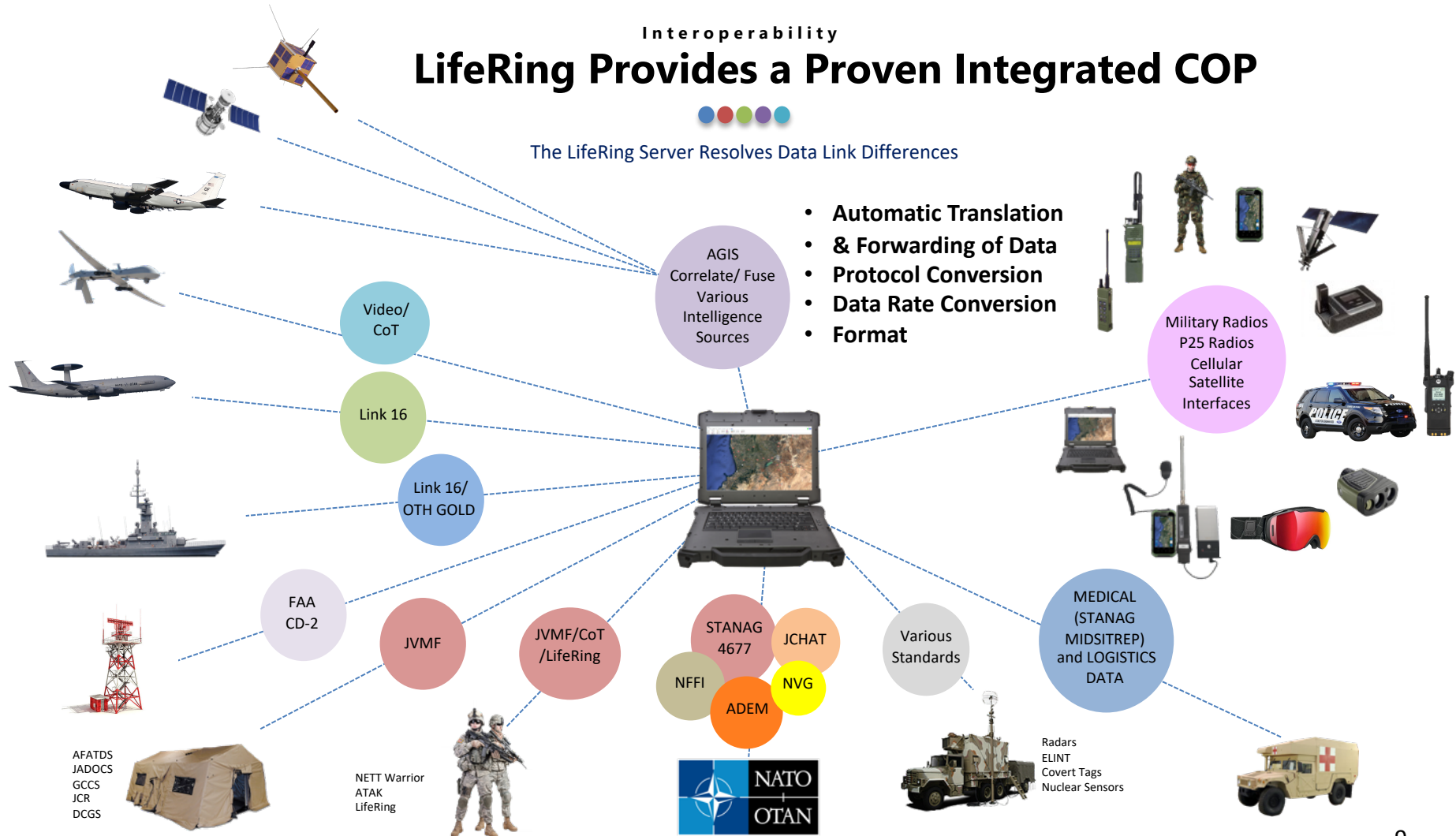


Interoperability

LifeRing Provides a Proven Integrated COP



The LifeRing Server Resolves Data Link Differences



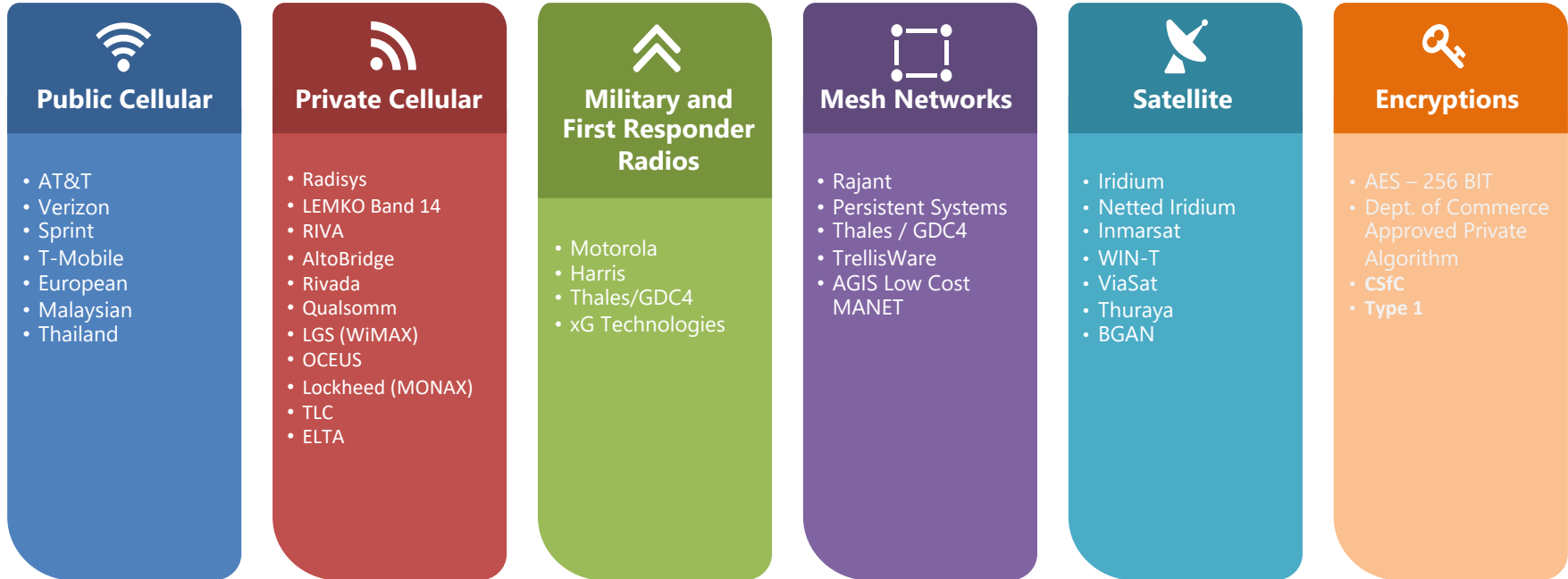
Interoperability

Command Center Integrated COP between C4I Systems



LifeRing Communication and Encryption Types

Integration

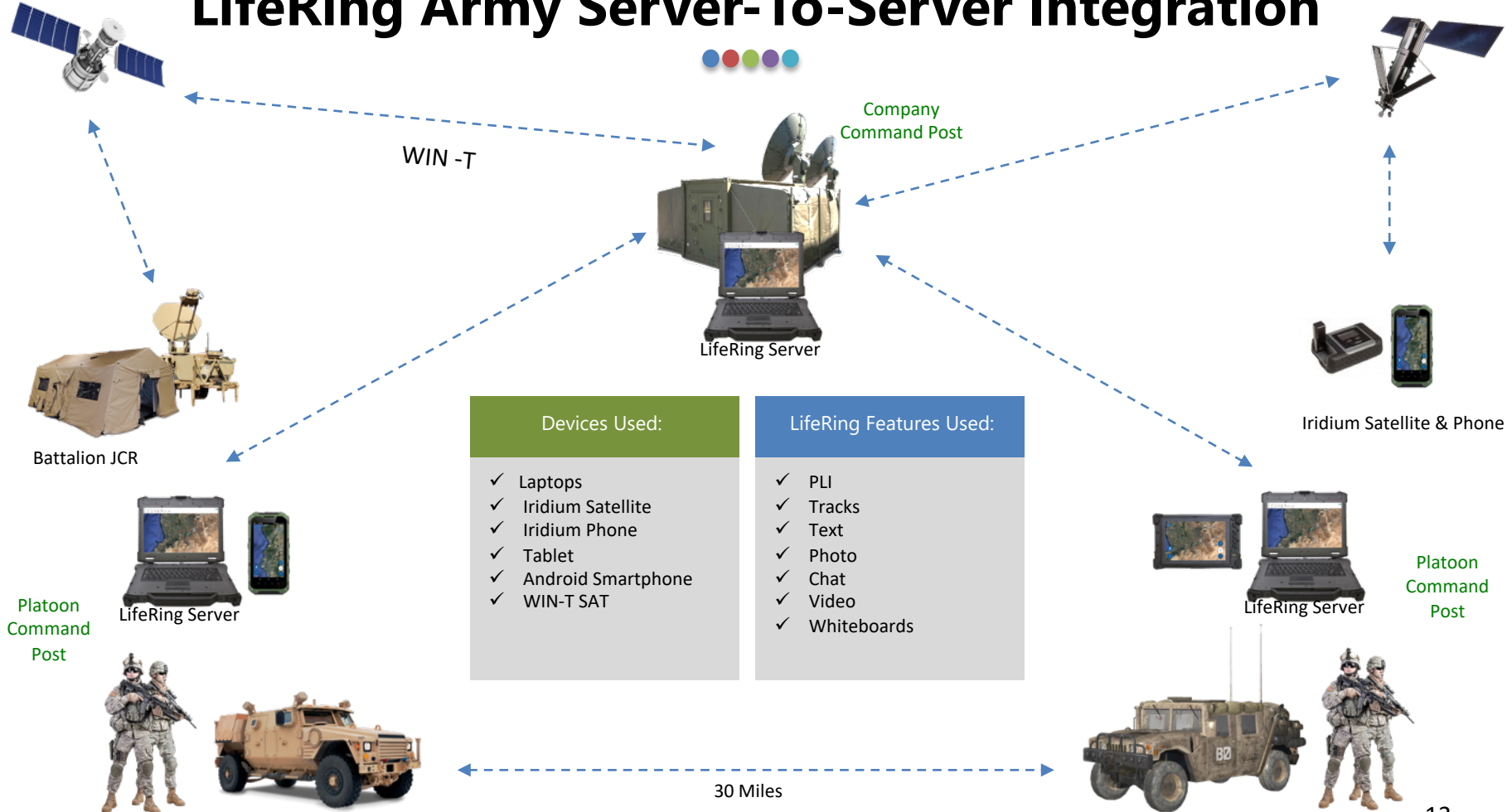


LifeRing has successfully used all the above communication types in various combinations

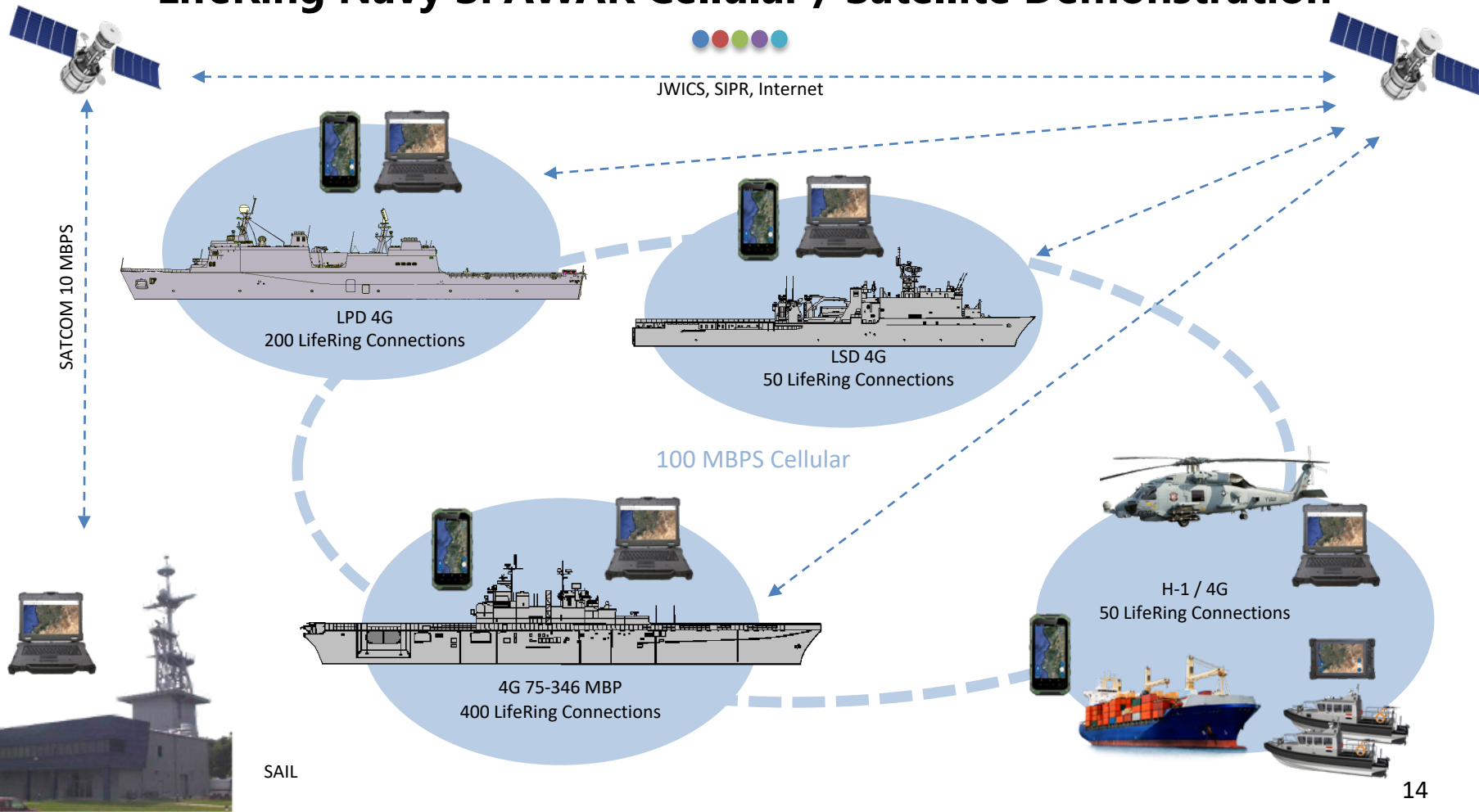
A Few LifeRing Live Exercises



LifeRing Army Server-To-Server Integration



Navy Exercise LifeRing Navy SPAWAR Cellular / Satellite Demonstration

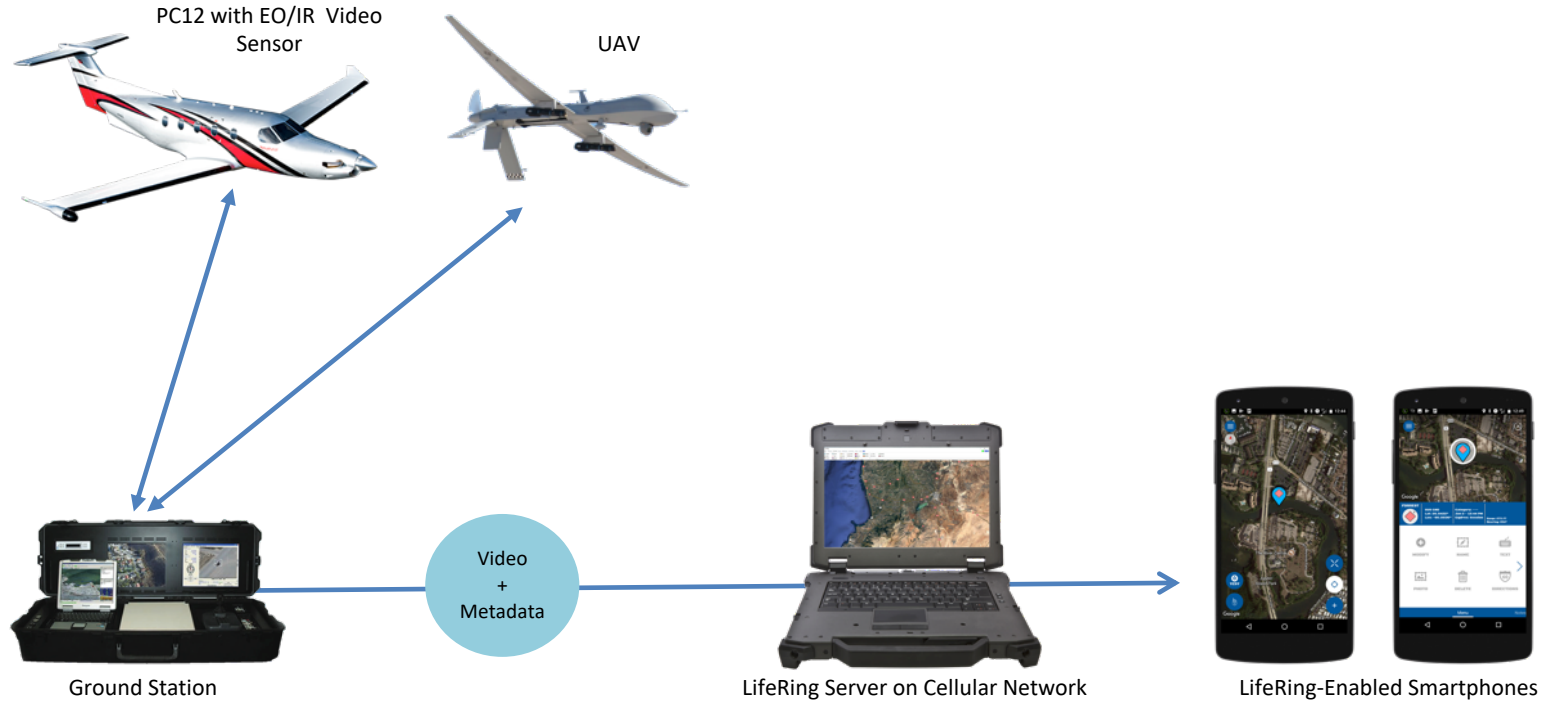


Aircraft Exercise

US JCS Aircraft/UAV Video Distribution Exercises



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



Satellite Exercise

Unclassified SAR Radar Satellite Data Exercise



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



Integrated C4I

Some of LifeRing's Features



- Runs on PC's, Tablets, Android and iPhone Devices
- Integrated Push-To-Talk
- Integrated Full Motion Video
- Real time Common Operational Picture (COP)
- Emergency Notifications
- Built-in Help Guide
- Request Immediate Position Report
- Transmit and Receive Commands
- 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. Data entered automatically synchronized when communications are established
- With largely common user interface throughout
- Mission Replay Data
- Nautical charts for USA waters



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

Made in the USA by US Citizens