COMMUNICATIONS-APPLIED TECHNOLOGY

A Veteran-Owned Small Business

Tactical Voice Communications Solutions for HLD/HLS





Made in the U.S.A

The Incident Commander's Radio Interconnect (ICRI) Solution to a multitude of tactical problems...

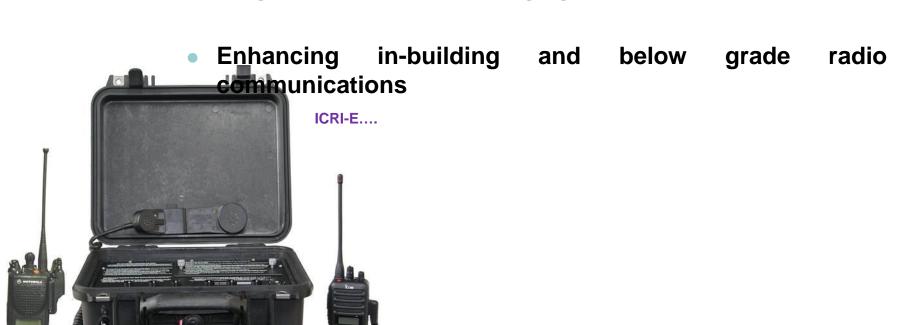
- Interconnects US/coalition military radios, municipal public safety radios, state and federal radios, land-line/cell/satellite telephones, in moments through the unmanned ICRI.
- ICRI provides a rugged, highly portable, radio cross-band (HF, VHF, UHF, 7-900MHz), cross platform (digital/analog, trunked/talk-around, AM/FM) capability for mutual aid operations.
- Enhance the radio link between warfighters operating in areas of poor RF propagation (inside-outside buildings, tunnels) and remotely located C² personnel by serving as a rapidly field-able "repeater."



ICRI

An effective and low cost solution to:

 Establishing immediate C² with the dissimilar radios of Guard Special Response Teams, USAR, police, medical triage, and other supporting agencies





A component of the AFNG RC-26 cache since 2006

The Equipment

- Small, rugged package/circuitry
- Highly portable cache



A component of the WMD-CST ADVON

since 2002

- Rapidly deployable (under 5 minutes)
- Multiple radio interconnect without adding technical complexity
- Minimal "operator" training
- Wide range of power sources (including "AA" batteries)

Low cost in equipment, allocated manpower, sustainment requirements

DHS CEDAP selection 2006-2008
4 Talk Group version

USCG Detroit Section 2011

ICRI Capabilities... NGB selection for CERF-P ICRI-4TG, 10 Radio Port

- Total weight: 20lbs
- Integrated, water-proof Pelican[™] case;
- 10 radio ports, handset or headset port, telephone port
- 4 talk group selection for all ports
- Cell and land-line telephone (POTS/PSTN) compatible
- Commercial and military satellite compatible
- HF, UHF, VHF, 700-900MHz and P25 portable/mobile compatible
- O Low current drain:
 - 5 radio bridge mode: 100mA @12V,
 - 10 radio bridge mode: 200mA @12V
- Operates on 8 or 16 AA batteries, external 6.5V-20 (24-31VDC option), 115/220 AC



NGB BPA W9133L-11-A-0016

ICRI Capabilities... ICRI-E (DoD Guardian II Force Protection selection)

- o 7.0 lbs
- o 13.5" x 10.5" x 6.0"
- WATERPROOF, SAND-PROOF
- Internal housing for eight (8) "AA" alkaline/primary batteries provide an 24+ hour duty cycle; also uses external DC (7-31V)
- Uses standard "military" connectors and compatible with the H-250/350 "green gear" handset



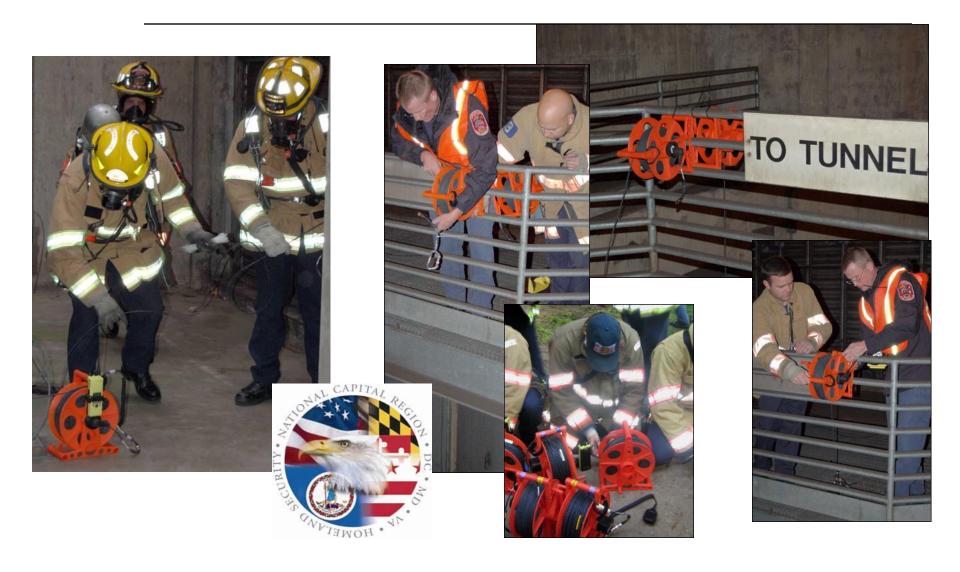
ICRI Capabilities... in support of tunnel and large structure entries

ICRI-2PED

- o 6 lbs
- Tactical Repeater
- o 8" x 12" x 10"
- Two Radio I/O ports + telephone port + handset port
- 6 "AA" alkaline batteries in the internal housing provides a 30 hour duty cycle.
- Multiple cables (up to 5000')
 extends radio communications
 quickly and reliably



Recon team to TOC commo up to 5000' into a tunnel



ICRI Mobile Command Post Capabilities... ICRI-4TG, 10 Radio Port with RoIP/VoIP, Rack-mountable



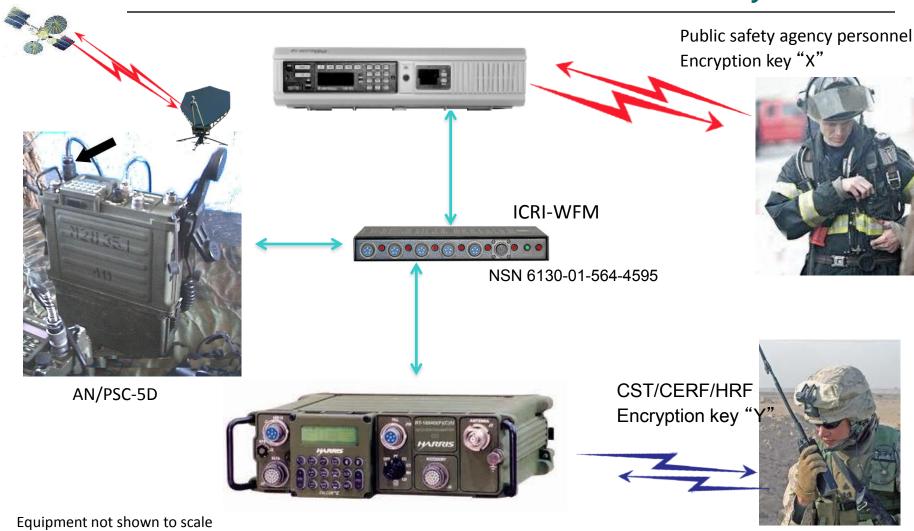
- 4 talk group selection for all ports
- Cell and land-line telephone (POTS/PSTN) compatible
- Commercial and military satellite compatible
- Low band, VHF, 220-900MHz legacy and P25 portable/mobile compatible
- VoIP options include DTMF pad/hook/flash switch
- Operates on external 6.5V-20, 115/220 AC
- Low current drain: 200mA @12V

Extending Situational Awareness

Line-Of-Sight Radio Link to Beyond-Line-Of Sight Using Military and Commercial satellites

ICRI Capabilities...

Seamless Radio Comms with Civilian Public Safety Personnel On-Scene and Beyond



LightSquared MSAT-G2

Multi-agency radios linked to LightSquared MSAT-G2

All versions of the ICRI can be rapidly connected to a G2 terminal via G2's RJ45 handset and serial ports.

The G2 handset connects to an RJ45 jack on the ICRI interface cable



Radio can be separated from the interface and G2 by 500' using the C-AT cable-reel

LMR linked to LightSquared MSAT-G2

- A portable or mobile radio can be rapidly connected to a G2 terminal via the RJ45 handset port and serial port.
- The C-AT interface requires no separate power supply draws 60mA from G2

Radio can be separated from the interface and G2 by 500' using the C-AT cable-reel

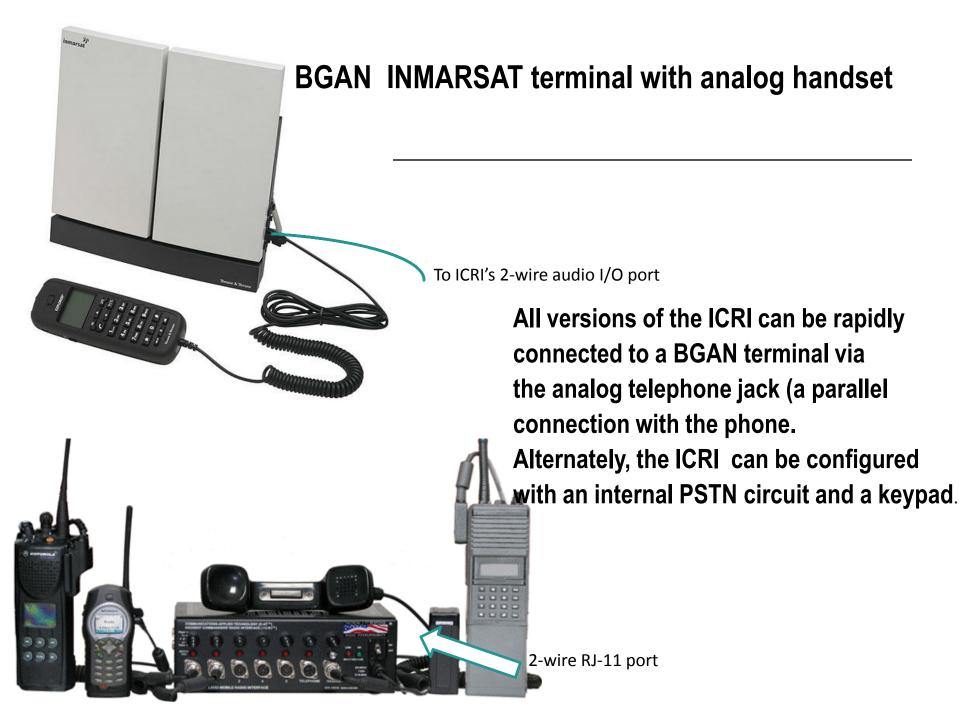


C-AT LMR-to-G2 interface shown scaled to G2

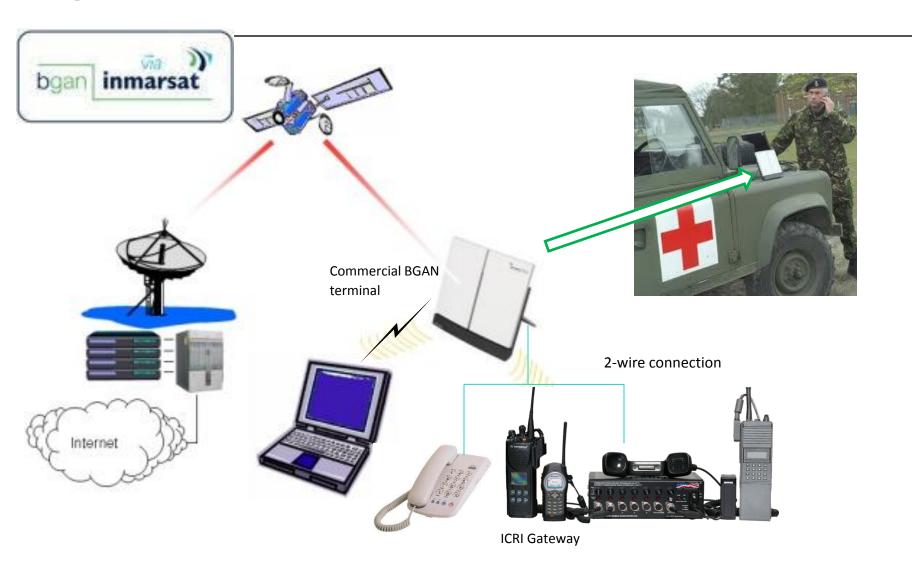








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