COMMUNICATIONS-APPLIED TECHNOLOGY

Tactical Radio Link to TACSAT

Using the Incident Commanders' Radio Interface™ (ICRI™)

GSA Schedule
Contract GS-07F-0653N
1122 Program Vendor

TACTICAL / 1ST RESPONSE®
RADIO INTEROPERABILITY

Solution:
Forward Personnel Need Comms to TOC

AN/PSC-5D

Solution:

ICRI-2PM

NSN 5820-01-564-4593

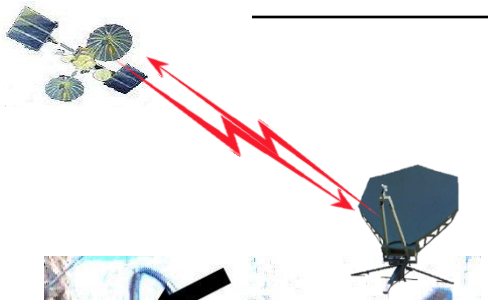
PRC-117

SINCGARS

ICRI Capabilities…

Seamless Radio Comms with Civilian Public Safety Personnel

On-Scene and Beyond



AN/PSC-5D

ICRI-WFM

NSN 6130-01-564-4595

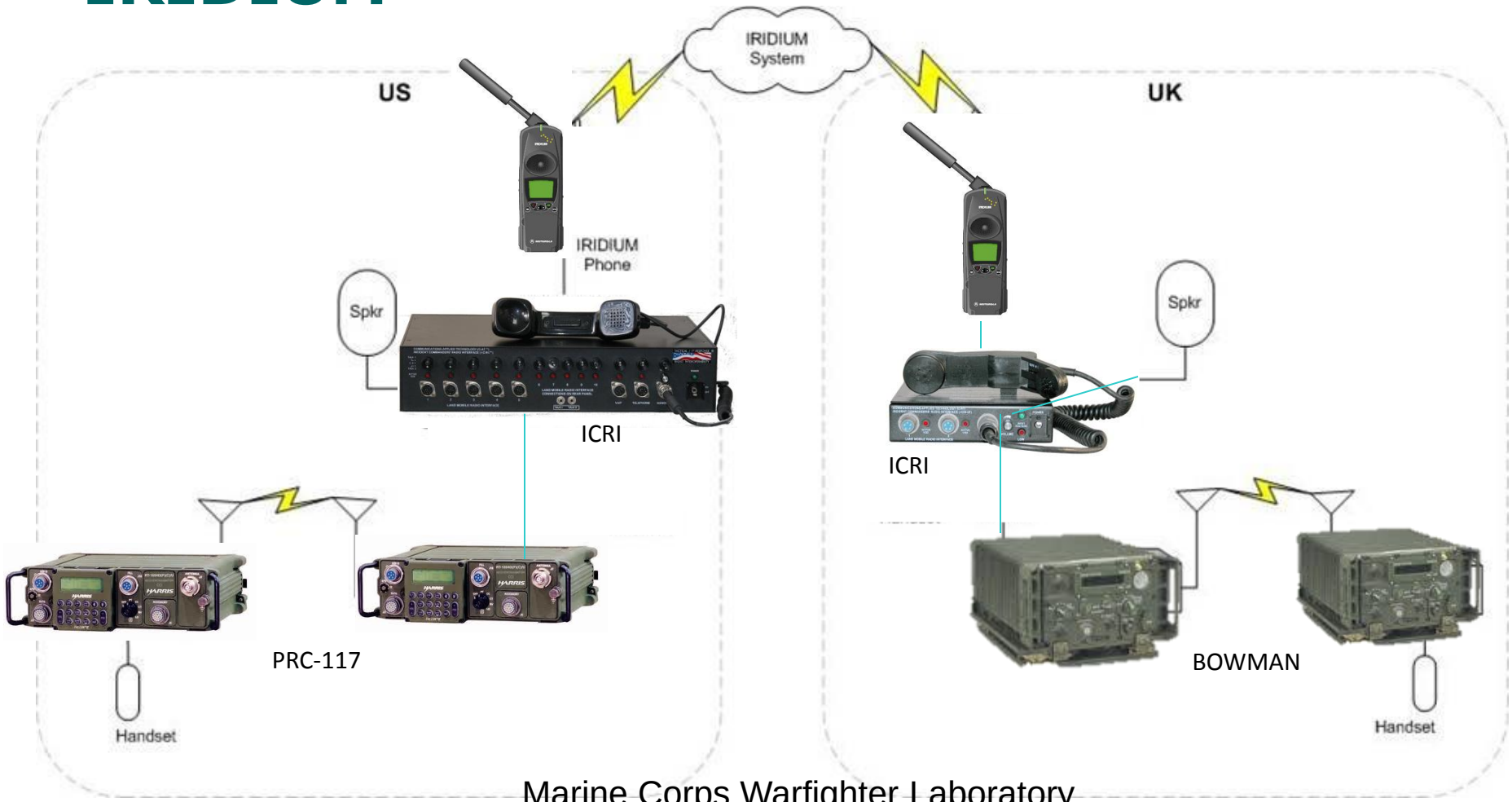
Public safety agency personnel
Encryption key “X”

CST/CERF/HRF
Encryption key “Y”

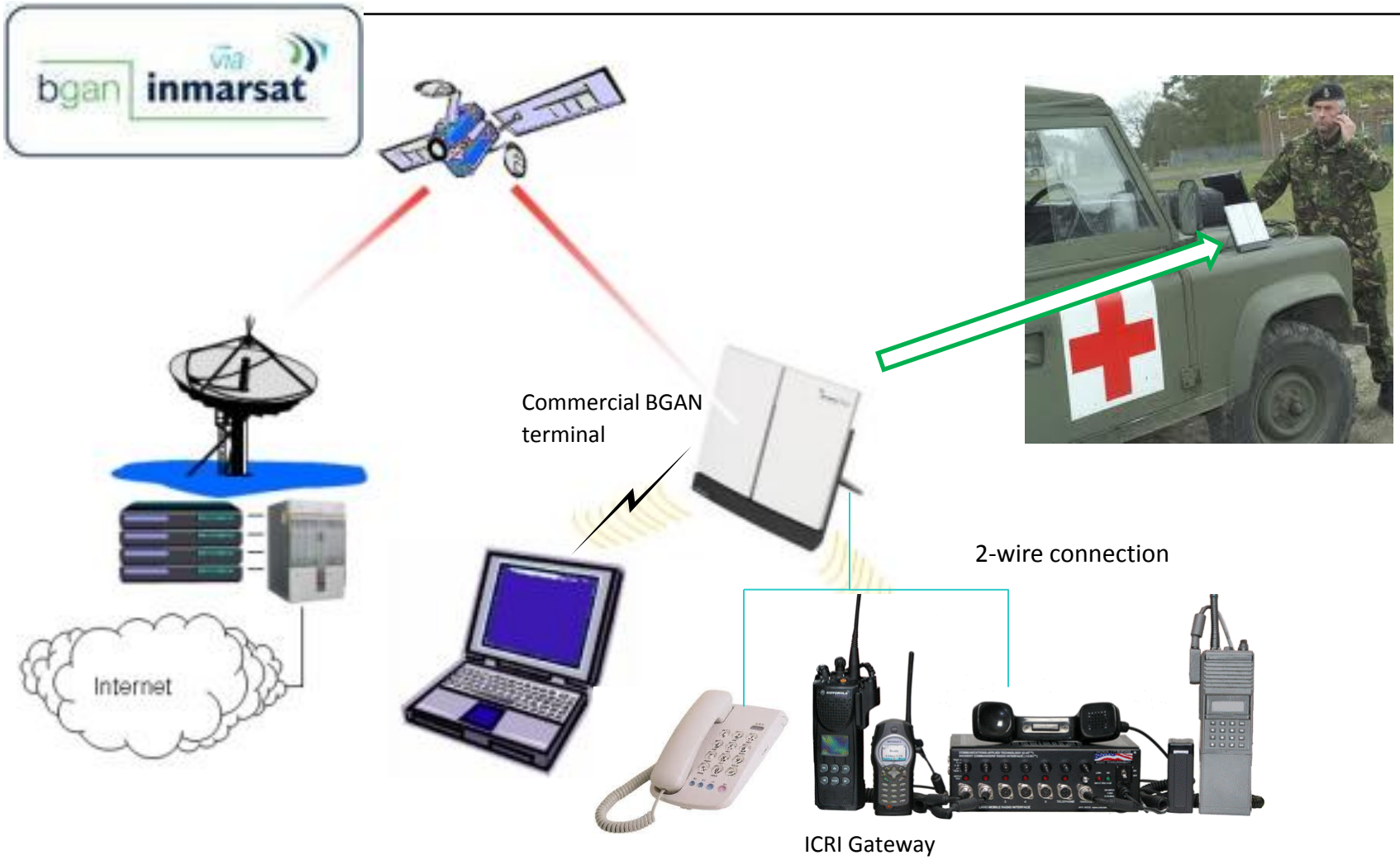
Equipment not shown to scale

ALL VOICE TRANSMISSIONS OVER RF LINKS ARE ENCRYPTED

IRIDIUM


IRIDIUM
System
US
UK
IRIDIUM
Phone
Spkr
ICRI
Spkr
ICRI
PRC-117
BOWMAN
Handset
Handset

BGAN


bgan via inmarsat
Commercial BGAN terminal
2-wire connection
Internet
ICRI Gateway

BGAN INMARSAT terminal with analog handset

To ICRI's 2-wire audio I/O port

All versions of the ICRI can be rapidly connected to a BGAN terminal via the analog telephone jack (a parallel connection with the phone.
Alternately, the ICRI can be configured with an internal PSTN circuit and a keypad.

2-wire RJ-11 port

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

Radio on reel

IRIDIUM hand-held satellite terminal
Thuraya 7100, 7101, SO 2510, SO 2520 and
Thuraya XT hand-held satellite terminals.

All versions of the ICRI can be rapidly connected to an IRIDIUM terminal via the terminal's 2.5 or 3.5mm headset jack.

All versions of the ICRI can be rapidly connected to an Thuraya terminal with a portable acoustic coupler.

acoustic coupler

4-wire RJ-22 port

For Additional Information…

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MADE IN THE U.S.A