RDG2 Profile (...recap)

RDG2 --- Solutions / System Integration

- Homeland Security
- Public Transportation
- Energy Management
- HF/VHF Radio Networks

FOCUS: Interoperability Solutions

- Inter Networks Interfaces (Secure Voice / Data)
- VOIP / ROIP Gateways
- Radio Networks Management / Automation

RDG2 activities update 2013-2014

Exclusive Canadian Barrett Distributor
- HF-VHF Secure Voice/Data, Email, Fax
- GPS tracking solutions
- Fixed base station, Mobile and Portable applications

Exclusive Canadian Rapid-M Distributor
- Leading modem technology for HF / VHF radio
- Military, Naval, Commercial, government/security
- Retrofit legacy analogue radios to Secure Digital Nets

Exclusive Canadian ACE-HFN Distributor
- HF Propagation Prediction / Nets Management
- Military and commercial HF radio networks
- …up to 72 HF Links (circuits)

New Product Dev. (OOKPIK)

OOKPIK-100 (available)
- ❑ VOIP / ROIP Gateway for Intelligent IP/SIP phones
- ❑ EMCOMM in Remote Areas without services
- ❑ …Barrett Radios Compatible

OOKPIK-200 (available)
- ❑ Gateway/Repeater for Standard Cell Phones
- ❑ Linkable to regular Cell Phone Services
- ❑ Agreement with Telebec and Bell

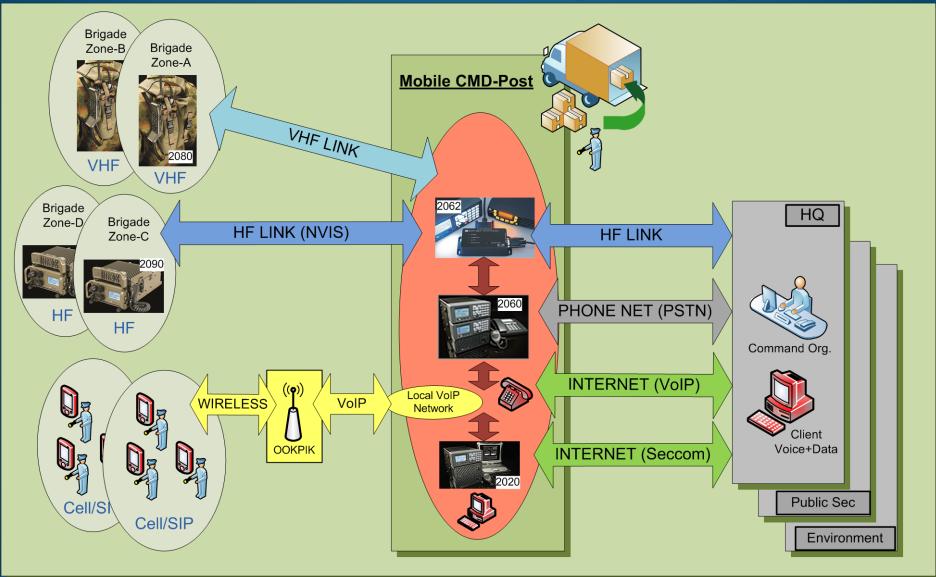## OOKPIK-300 (in development)
- ❑ ...next step to extend interoperability
  - • SATCOM interface
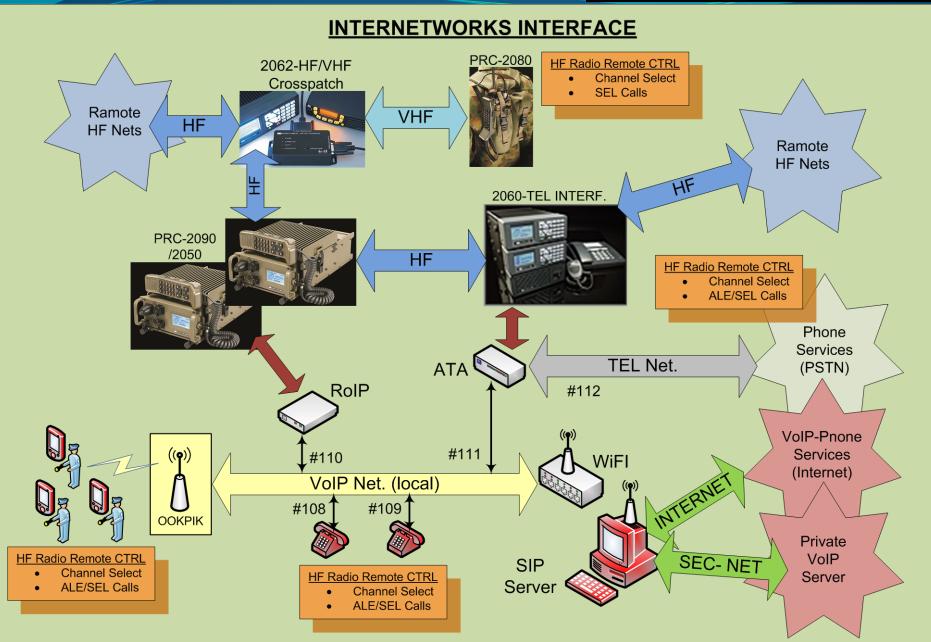 - • Others as requested…

Typical Applications (EMCOMM)

Typical Applications (Voice)

INTERNETWORKS INTERFACE

2062-HF/VHF Crosspatch

PRC-2080

HF Radio Remote CTRL
- Channel Select
- SEL Calls

Ramote HF Nets

HF

VHF

HF

Ramote HF Nets

HF

2060-TEL INTERF.

PRC-2090 /2050

HF

HF Radio Remote CTRL
- Channel Select
- ALE/SEL Calls

Phone Services (PSTN)

ATA

TEL Net.

#112

RoIP

#110

#111

WiFI

VoIP-Pnone Services (Internet)

VoIP Net. (local)

INTERNET

OOKPIK

#108   #109

SIP Server

SEC- NET

Private VoIP Server

HF Radio Remote CTRL
- Channel Select
- ALE/SEL Calls

HF Radio Remote CTRL
- Channel Select
- ALE/SEL Calls

Barrett products (short list...)
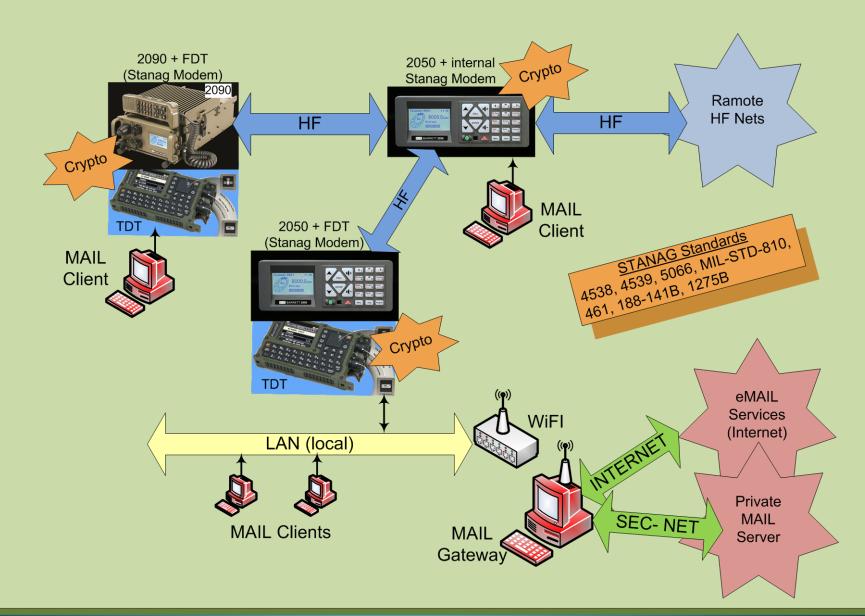
2050 HF Transceiver (options)

2060 – Telephone Interconnect

2020 - Data - Emails - Fax

PSTN & VOIP
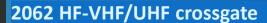
STANAG Internal modem available

Crypto AES / DES

2062 HF-VHF/UHF crossgate

Barrett products (short list...)

PRC-2090 HF Transceiver

JITC certified

10/35Watt VHF ManPack

- Secure Voice & Data
- Secure/ALE Call
- Crypto (AES FIPS 140-2 level 2)
- Data capability via FDT's
- Freq. Hopping option
- GPS Tracking Emabled

125W Mobile Mount

STANAG Field Data Terminal

Crypto AES / DES

RDG2 Télécommunication **RapidM**

Tactical Data Terminal (TDT)

STANAG Internal/External modems

Crypto AES / DES

STANAG Standards
4538, 4539, 5066, MIL-STD-810, 461, 188-141B, 1275B

- Allows legacy analogue radios becoming part of secure digital comm. networks.
- Enables Smart phone-like services over radio (digital voice, email, SMS).

RM6	**RM2-HVM**	**TC4**	**RT5**
• RM6 LF & HF Modem & ALE Controller • Up to 9600 bps in 3 kHz • Up to 19200 bps (ISB radio) • 2G ALE controller option	• HF & V/UHF Modem • Up to 9600 bps in 3 kHz • Mobile & rack mount	• HF & V/UHF Modem Module • Up to 9600 bps (HF) / 96000 bps (V/UHF) • STANAG 4538 (3G ALE)	• Tactical Data Terminal • Rugged, handheld palmtop / PDA • E-mail and Chat • GPS

Rapid-M products (short list…)
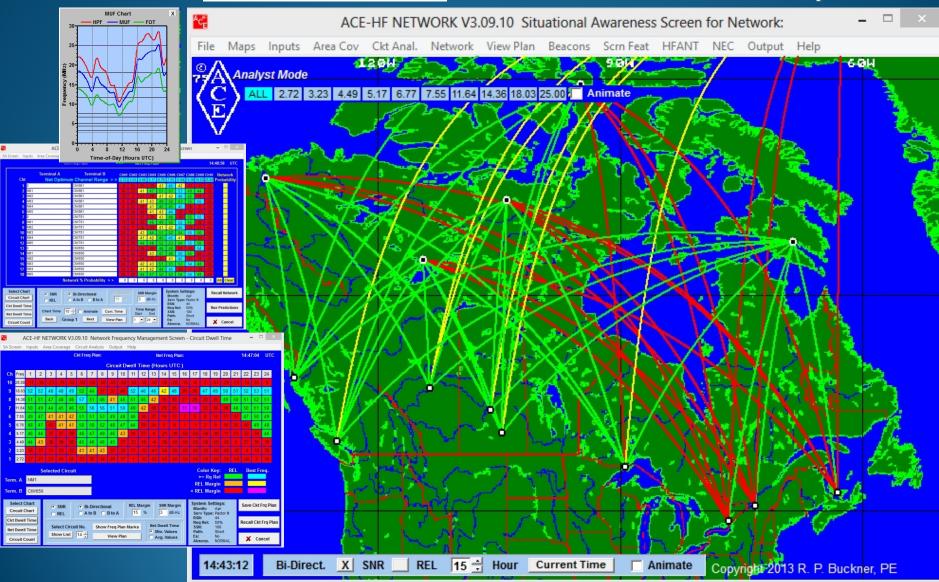
RT5/RA5 Supported Applications

COMPARAISON CHART	RAPTAWC RT5/RA5	SMART PHONE	RUGGED PDA	RUGGED LAPTOP
Small & Lightweight Terminal	✔	✔	✔	
Robust - Environmental Resistance	✔		✔	✔
Encrytption Module	✔			
Radio Modem & ALE Controller	✔			
Email Client	✔	✔	✔	✔
Short Message Chat Client	✔	✔		
Report Templates	✔			
SB Host Interface	✔		✔	✔
Ethernet LAN Interface	✔			✔
GPS Receiver & Electronic Compass	✔	✔		
Position Distribtion	✔			

HF Nets Mgt Tool (ACE-HF Network)

Propagation Simulation: Point-Point Circuits and Full Network (up to 72 links)

RDG2 Offer –>

RDG2 --- Products / Systems

- ❑ **OOKPIK (100/200/300)**
- ❑ **HF/VHF Radio Equipment**
- ❑ **Cross Networks Interfaces**
- ❑ **Modems (Stanag + Crypto)**

RDG2 --- Services

- ❑ **Antennas Design**
- ❑ **Propagation Predict. / Net Mgt**
- ❑ **Tech Support / Training**

Thank you for your time...

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