TACTICAL RADIOS
Agenda

• Past & Present
• Mission & Description
• Current Organization
• Products
• Future Organization
• Competition
• Technology
• Questions
### Past & Present

#### Pre Joint Years - 1997
- **Organization**: Army PEO C3T/PM TRCS
- **Mission Focus**: > 150 Radios providing in support of tactical operations that include battlefield engagements
- **Product Lines**:
  - AN/PSC-5 Falcons (AN/PRC-117 & -152)
  - MMBITR (AN/PRC-148)

#### Early Joint Years - 1997-2004
- **Organization**: Joint Programs (PMCS / JTRS JPO)
- **Mission Focus**: Begin development of programmable, modular, open architecture, software-based encrypted radios for all service platforms
- **Product Lines**:
  - JWPO: Waveforms
  - 33 Waveform
  - Cluster 1: Ground Vehicular
  - Cluster 2: JEM Handheld
  - AMF: (Cluster 3 & Cluster 4)
  - Maritime Fixed Station & Airborne
  - Cluster 5: Small Form Fits

#### JPEO JTRS Years - 2005-2012
- **Organization**: Joint Program Executive Office
- **Mission Focus**: Production of software-based radios, waveform development, and delivery of integrated networked platforms to the field
- **Product Lines**:
  - NED: Waveforms
    - 9 Waveforms
  - GMR (currently NMVR): Mid-tier Vehicular Radio
  - HMS: Handheld, Manpack, and Small Form Fit
  - AMF: Airborne Maritime Fixed Station
  - MIDS: Multifunctional Information Distribution System
  - Special Products: JEM Handheld

#### Post JPEO Years - 2012-Present
- **Organization**: Army PEO C3T/PM TR
- **Mission Focus**: Fielding of software-based radios and integration with legacy platforms
- **Product Lines**:
  - HMS:
    - Rifleman Radio
    - Nett Warrior Radio
    - Manpack
    - MUOS Appliqué
    - SFF-B
    - SFF-D
  - Network Systems
    - SINCGARS
    - MIDS
    - EPLRS
    - CSEL
    - AN/PSC-5
    - COTS
    - Others

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**DISTRIBUTION STATEMENT A.** Approved for public release; distribution is unlimited.
Another Viewpoint

Legacy Radios: MX-300, SABER I/II/III, AN/PRC-126, AN/PRC-139

1997 98 99 2000 01 02 03 04 05 06 07 08 09 10 11 12 13

* Joint Org  Air Force Org  Navy Org  USSOCOM  Army Org

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MISSION

Project Manager Tactical Radios (PM TR) provides the Army and other Services with tactical radio communications systems to meet mission requirements.

DESCRIPTION

PM TR enables tactical communications by providing products which include Handheld, Manpack and embedded radio systems that are capable of terrestrial and celestial communications. PM TRs acquisition mission is driven by the Product Manager Handheld, Manpack and Small Form Fit (PdM HMS), and the Product Manager Network Systems (PdM NS). PdM HMS is developing and fielding the next generation of software defined tactical radio systems. The PdM NS team fields and sustains legacy/current force tactical radio systems while procuring and fielding already developed tactical radio systems. The tactical radios team is focused on providing the right radio, at the right time, in the right place in support of Army and other Services tactical radio requirements.
PEO C3T Organization

Program Executive Officer
MG N. Lee S. Price

Mr. Mark Compton – Deputy PEO (Acting)
MAJ Marty Jackson – Executive Officer

Chief of Staff
Ms. Mary Woods

AS OF 4 Mar 2013
PM TR Current Organization

- Project Manager
  - Deputy Project Manager (West)
    - Operations Management Division
      - Product Manager HMS
  - Deputy Project Manager (East)
    - Technical Management Division
    - Readiness Management Division
    - Business Management Division
      - Product Manager NS
**PdM HMS Products**

**Current Rifleman Radio**
AN/PRC-154
- Type 2 NSA certification
- One channel
- SRW Waveform
- Commercial GPS
- Buttons on front are black

**Current Manpack**
AN/PRC-155
- Type 1 NSA certification
- Two channel
- SRW, SINCgars, UHF SATCOM, MUOS Waveforms
- SAASM GPS

**MUOS Appliqué**
- Add-on appliqué enables Manpack to serve as MUOS satellite ground terminal

**Nett Warrior Radio**
(SFF BV-1)
- Secret and Below Capable (SAB)
- One channel
- SRW Waveform
- Commercial GPS
- Buttons on front are tan/grey

**Small Form Factor – Bravo (SFF-B)**
- Type 1 NSA certified
- Two channel
- SRW & SINCgars waveforms
- External GPS

**SFF-D**
- Type 2 NSA Certified
- One Channel
- SRW Waveform
- External GPS
- Development completed

**Nett Warrior System Components**
(PM SWAR)
- End User Device
- USB Connector to radio
- Carrying case

**Planned for Manned & Unmanned Aviation Systems**

**Planned for Unmanned Ground Systems**

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PdM NS Products

Single Channel Ground and Airborne Radio System (SINCGARS)
- Raytheon
- Harris

Enhanced Position Location Reporting System (EPLRS)
- Raytheon

Tactical Satellite (TACSAT) Radios
- AN/PRC-117F
- Harris
- AN/PSC-5D
- Raytheon
- AN/PRC-117G
- Harris

Multifunction Information Distribution System (MIDS)
- ViaSat & BAE/Rockwell-Collins

Handheld (HH) Radios
- XTS 2500 & 5000
- Motorola
- 5100 Tier 2
- Combat LMR
- EF Johnson

High Frequency (HF) Radios
- AN/PRC-150
- Harris

Spitfire/Shadowfire Radio
- AN/PSC-5, 5C
- Raytheon

Tactical Satellite (TACSAT) Radios
- AN/PSC-5D
- Raytheon

Combat Survivor Evader Locator (CSEL) Radio
- Boeing

Single Channel Ground and Airborne Radio System (SINCGARS)
- ITT

Enhanced Position Location Reporting System (EPLRS)
- Raytheon

High Frequency (HF) Radios
- AN/PRC-117G
- Harris

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PM TR Future Organization

PdM MNVR & PdM AMF planned to arrive 4QFY13.
Competition

• Open to all industry partners

• Standard Acquisition Processes

• Based on approved requirements

• Testing to verify products ability to meet requirements

• Goal is to provide Soldiers with the best product(s)
Technology

- Size
- Weight
- Power
- Range
- Cost