Handheld, Manpack, and Small-Form-Fit (HMS) Spectrum Supportability Overview

MAJ James Allen
Assistant Product Manager
(619) 302-9074
james.p.allen74.mil@mil.mil

Sayeed Hasan, Ph. D.
Engineering and Spectrum Management
443-395-8734
Sayeed.hasan@us.army.mil
**Handheld, Manpack, and Small-Form-Fit (HMS) Spectrum Supportability Overview**

HMS Mission

- Joint Force tactical edge networking radios
- Warfighter connections to the Global Information Grid
- Best value to the Department of Defense through structured competition intended to leverage industry partners to continually provide low cost, innovative, interoperable and integrated technology
Product Lines

**Rifleman Radio AN/PRC-154**
One Channel SRW - Type 2
NSA certification commercial GPS

**Manpack AN/PRC-155**
Mounted and dismounted Two Channel radio initially running SRW, SINCgars, UHF SATCOM waveforms with Type 1 NSA certification and SAASM GPS.

**MUOS Appliqué**
Add-on applique allows Manpack to serve as MUOS satellite ground terminal

**Nett Warrior Radio**
Type 1 NSA certified single-channel SRW radio.

**SFF-B**
Two Channel SRW/SINCgars NSA Type 1 certified radio for airborne platforms.

**SFF-D**
One Channel radio with SRW.
Submitted DD 1494 Stage 4 Host Nation Applications for EUCOM, PACOM and CENTCOM to Army Spectrum Management Office in May 2011

Received supportability comments from:

☑ PACOM - Japan, Australia*, Philippines*
  ☑ *Temp assignments only

☑ EUCOM - Canada, Belgium, Germany, Spain, Italy*
  ☑ *Temp assignments via NATO

☑ NATO

☑ CENTCOM

PM HMS is working with the US Authorities in PACOM to obtain frequency assignments
Submitted DD 1494 Stage 3 Applications for EUCOM, PACOM and CENTCOM to Army Spectrum Management Office in June 2011

Received supportability comments from:

- PACOM - Japan, Australia*, Philippines*
  - *Temp assignments only
- EUCOM - Canada, Belgium, France, Spain, UK
- NATO
- CENTCOM

PM HMS is working with the US Authorities in PACOM to obtain frequency assignments
# JTRS HMS Spectrum Certification Summary

<table>
<thead>
<tr>
<th>DD1494 Status Matrix</th>
<th>JTRS HMS Form Factors</th>
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</thead>
<tbody>
<tr>
<td><strong>Nomenclature</strong></td>
<td><strong>No. Channels</strong></td>
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<tr>
<td>AN/PRC-154(V)1</td>
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<tr>
<td>SFF-A RT-1935/G</td>
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<td>SFF-D RT-1948/D</td>
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<td>SFF-B RT-1953(C)/T</td>
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<td>AN/PRC-155(V)1</td>
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<td><strong>NTIA DD-1494</strong></td>
<td><strong>Certification Status</strong></td>
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<tr>
<td><strong>CENTCOM</strong></td>
<td><strong>Stage-4 Approved</strong></td>
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<td>Supportable Comments received</td>
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<td><strong>EUCOM</strong></td>
<td><strong>Stage-4</strong></td>
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<td><strong>PACOM</strong></td>
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Conclusion

- The Handheld, Manpack and Small Form Fit (HMS) family of Software Defined Radios are key to delivering legacy interoperability and networking capabilities to mounted and dismounted warfighters
  - JTRS HMS Manpack and its tuning range is flexible to use authorized frequency bands
  - JTRS HMS is transforming battlefield with Net-Centric and Secure networking communications
  - Fielding of HMS Radios is ongoing
  - Request consideration for Spectrum Supportability for HMS Manpack Stage-3 DD-1494 and Rifleman Radio Stage-4 DD-1494

- Way Ahead
  - Look forward to working with each COCOM coordinating full Spectrum Supportability for all Host Nations
  - Receiving positive feedback form Host Nations (Japan, Korea etc.)