

HFIA ICM

Royal Navy Update

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Royal Navy HF Data Capability

- Overview of Royal Navy's current HF data programmes
- Interoperability Issues



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HFDS (BFEM-66)

- UOR procured to provide Allied interoperability
 - US BFEM-66
- Secure point-to-point email between coalition ships
 - Based on STANAG 5066 CFTP client
 - Operates at 4k8 bps (MIL-188-110B)
 - 400NM range using 100W
- Military Task Equipment
 - 32 Marconi MDH sets
 - Fitted as MTE to ships on deployment
 - NATO & East of Suez (Gulf)



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SR(S)7397 – Outfit 4KMA

- **NATO BRASS Phase II**
 - **Ship/Submarine HF Transmit Upgrade**
- **ALE – Mil Std 188 141B**
- **ARQ – STANAG 5066**
 - **ACP127 and ACP123 clients**
 - **Email client (CFTP/HMTP)**
- **Thales Communications (UK) Ltd**
 - **First ship fit commissioned Jan 05**
 - **Some 30 ships now fitted**
 - **Last fit (~ 90) scheduled for 2008**



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SR(D)2024 - DHFCS

- **Defence HF Communications Service**
 - **PPP contract let July 2003 to VT Communications**
- **ALE and ARQ ship-shore services IOC Aug 2005**
 - **Working up procedures for ship-shore-ship 'Rear Link' services**
- **Equipment based on USAF SCOPE Command system**
 - **Rockwell Collins prime sub-contractor**



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Interoperability Issues

- **Rockwell-Collins vs Thales vs Marconi**
- **DHFCS not fully interoperable with Outfit 4KMA**
 - **Data Rate Change Mechanism**
 - **Rockwell Collins providing fix**
 - **ALM**
 - **No solution**
- **Outfit 4KMA not fully interoperable with BFEM66**
 - **90EB configuration issue**
 - **Solution available from Thales**
 - **Funding for fix not yet identified**
 - *Interoperability seems likely to be lost*



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Questions?

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Capability Gaps

- **ALE not fitted to MilSatCom ships**
 - **Unable to use ALE ship-to-ship**
- **HF Email - limited versatility**
 - **Point to point. No 'chat'. Not IP capable.**
- **No Email link into shore infrastructure**
- **Emerging Gap with US?**



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