



Real Life Testimonials: Enabling Technologies Supporting the Warfighter

DoD Teleport Program Manager's Perspective on Spectrum Supportability

Mike Kelley
DoD Teleport Program Office
European Implementation & Integration Coordinator
4 December 2003



Spectrum Supportability -- A Top Challenge



“Understand Host Country statutory processes for Host Nation Approval [HNA] and use of Commercial Frequency spectrum.”

CAPT Brad Leininger
Teleport Program Manager



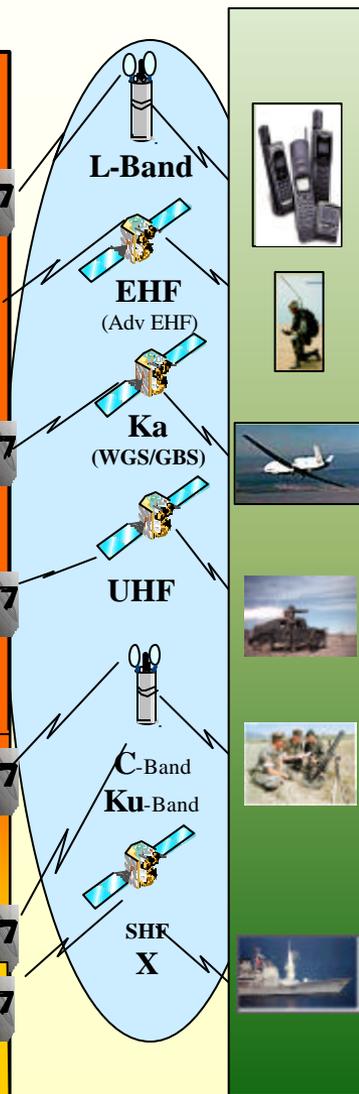
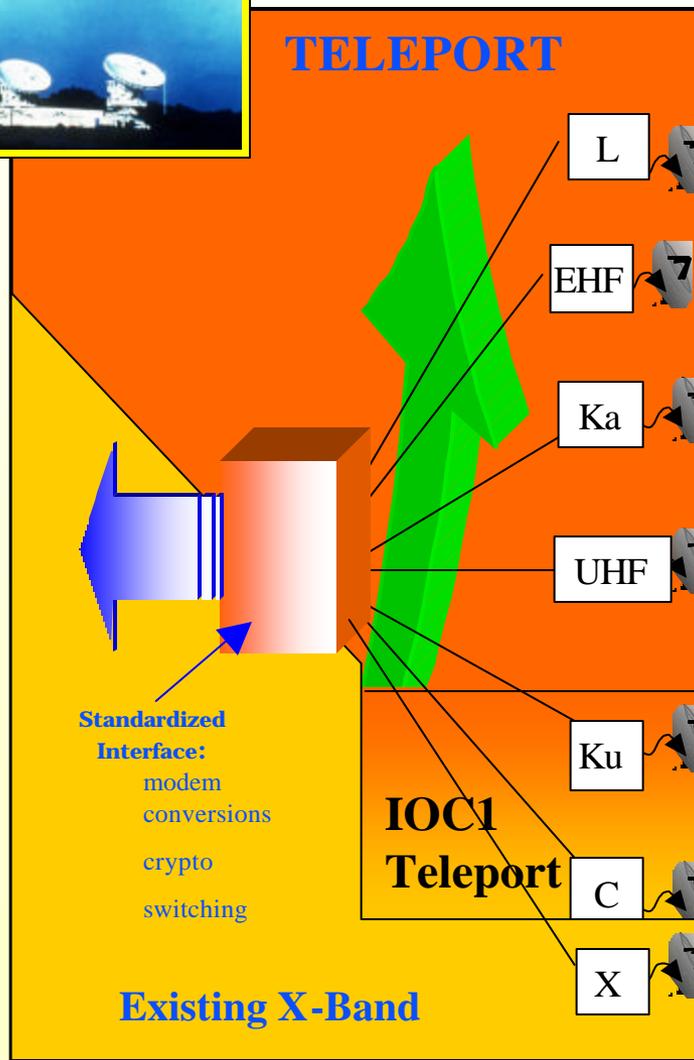
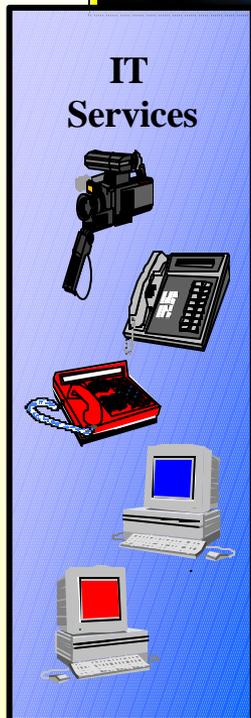
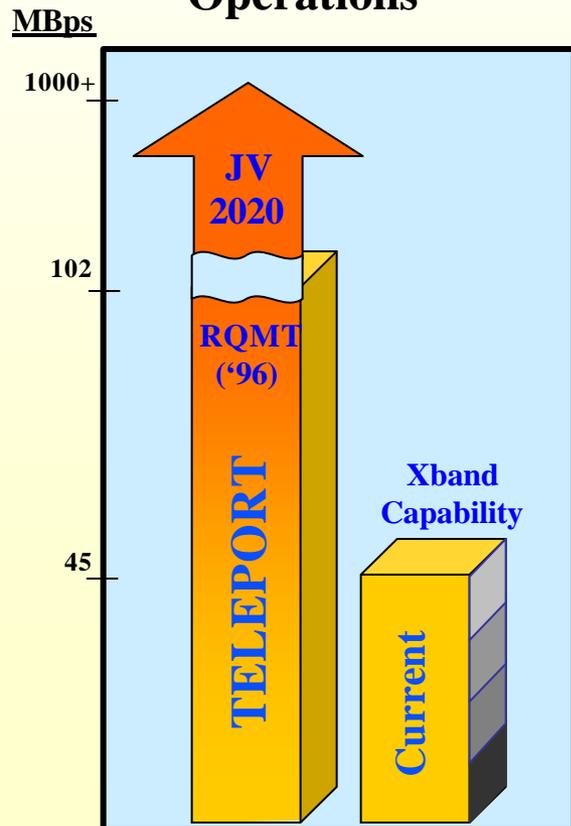
- Requirements:
 - DoDI 5000.2 Statutory Rqmt, DoDD 4650.1, OMB Circular A-11
- Impact: Teleport operations potentially delayed



DOD Teleports Evolution: (2000-2012)



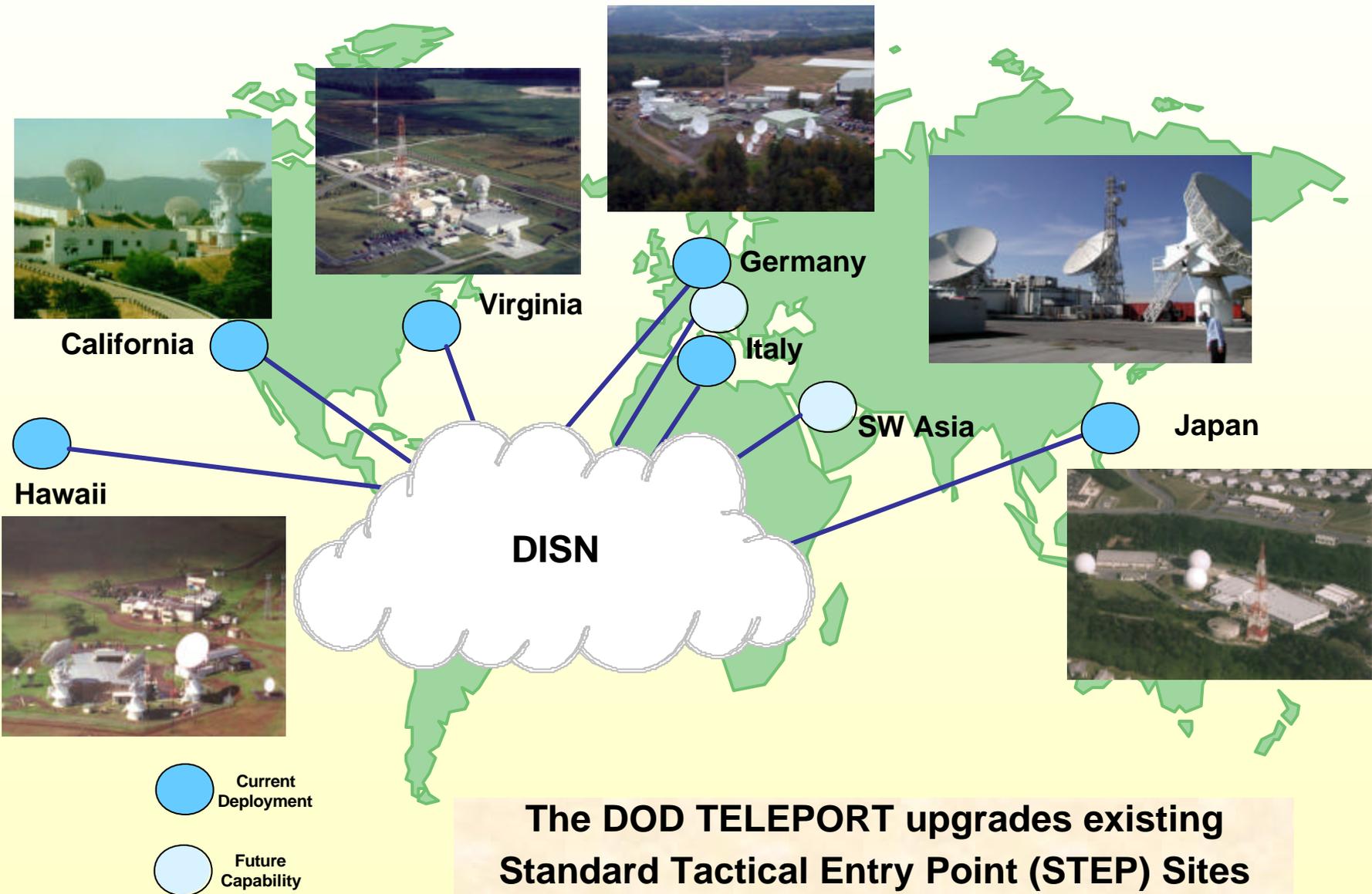
Major Regional Operations



DISN: Defense Information Systems Network
 IT: Information Transfer (Voice, Video, Data, IP)



DOD Teleport Sites



The DOD TELEPORT upgrades existing Standard Tactical Entry Point (STEP) Sites



Host Nation Approval



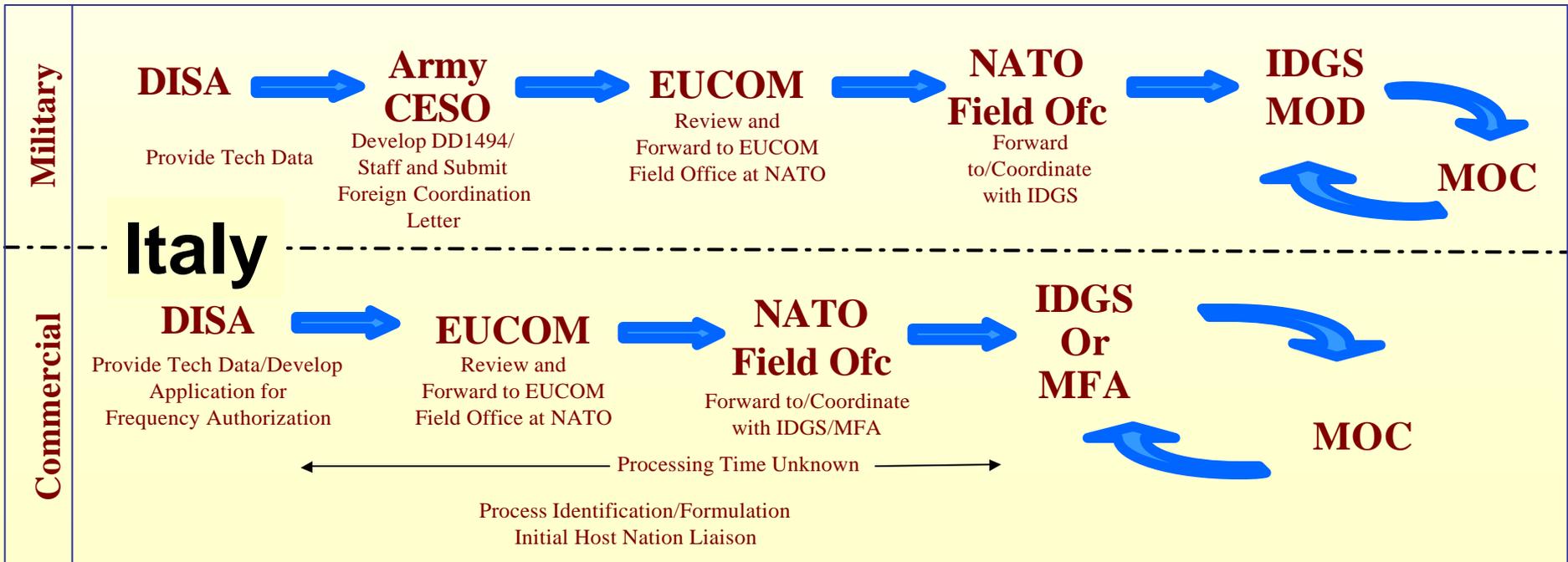
- **Spectrum Supportability/Frequency Authorization**
 - Each nation follows unique processes
 - DOD utilizes J/F-12 process as directed by USMCEB
 - Commercial Bands - C and Ku
 - Government/Military Bands – HF, UHF, SHF, EHF
- **Mission Approval**
 - SOFA impact for mission and personnel
- **Construction approval**
 - Incorporates E3, environmental, cultural/historical impacts



Processes Are Different in Every Country



Application for Commercial Terminal Licensing and Frequency Authorization





US&P Commercial License Options



- **Challenge: Obtain FCC authorization for commercial terminals at U.S. sites prior to operation**
- **Three Options Available:**
 - Gov't can apply to FCC, via NTIA, for permanent license in commercial bands on a “ Not To Interfere (NIB)” basis
 - Gov't can apply for short-term FCC “Special Temporary Authorization”
 - Site O&M commercial contractor can apply to FCC for primary license with full protection
- **Status: TPO pursued option #3 – formal FCC licenses (15 yr duration) have been granted**
- **Barriers: Process is lengthy and complicated**



Spectrum Supportability Lessons Learned



- **PMs and Geographic UCCs must address spectrum issues at program initiation**
 - Include in Acquisition Strategy
 - Plan for and commit resources
- **Close collaboration**
 - Spectrum Management Community (NTIA Manual/FCC Regulations)
 - Unified Combatant Commanders & Lower Echelon Commands
 - Public Affairs
- **Early commitment is essential**
 - Understand the process
 - Long lead times
 - Multiple processes for both military and commercial systems
 - Process unique to each country – including U.S.
 - Aggressive engagement
 - Processes are interdependent, but not sequentially linked
 - Follow up, follow up, follow up!!!

Operational Capability relies on Spectrum Access!



Points of Contact



- **Teleport Program Manager**
 - **CAPT Brad Leininger, USN** **leiningb@ncr.disa.mil**
 - Commercial: (703) 882-1920
 - DSN: (312) 381-1920
- **TPO EUCOM Site Coordinator**
 - **Mr. Michael Kelley** **kelley2m@ncr.disa.mil**
 - Commercial: (703) 882-0718
 - DSN: (312) 381-0718
- **Defense Spectrum Office (DSO)**
 - **Mr. Byron Barker** **barkerb@ncr.disa.mil**
 - Commercial: (703) 325-2606
 - DSN: (312) 221-2606



Japan



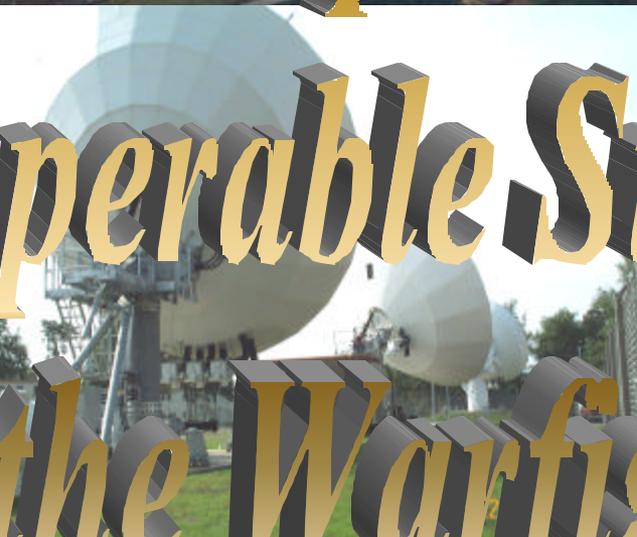
Virginia



Italy



California



Germany



Hawaii



Interoperable Support for the Warfighter



Back-up Slides

DoD Teleport Program Manager's Perspective on Spectrum Supportability

Mike Kelley
DoD Teleport Program Office
European Implementation & Integration Coordinator
04 December 2003



Service Spectrum Offices



Defense Spectrum Office: dso@ncr.disa.mil
(703) 325-2567 / DSN 221-2567

Army: armyspecmgmt@hqda.army.mil
(703) 325-8226 / DSN 221-8226

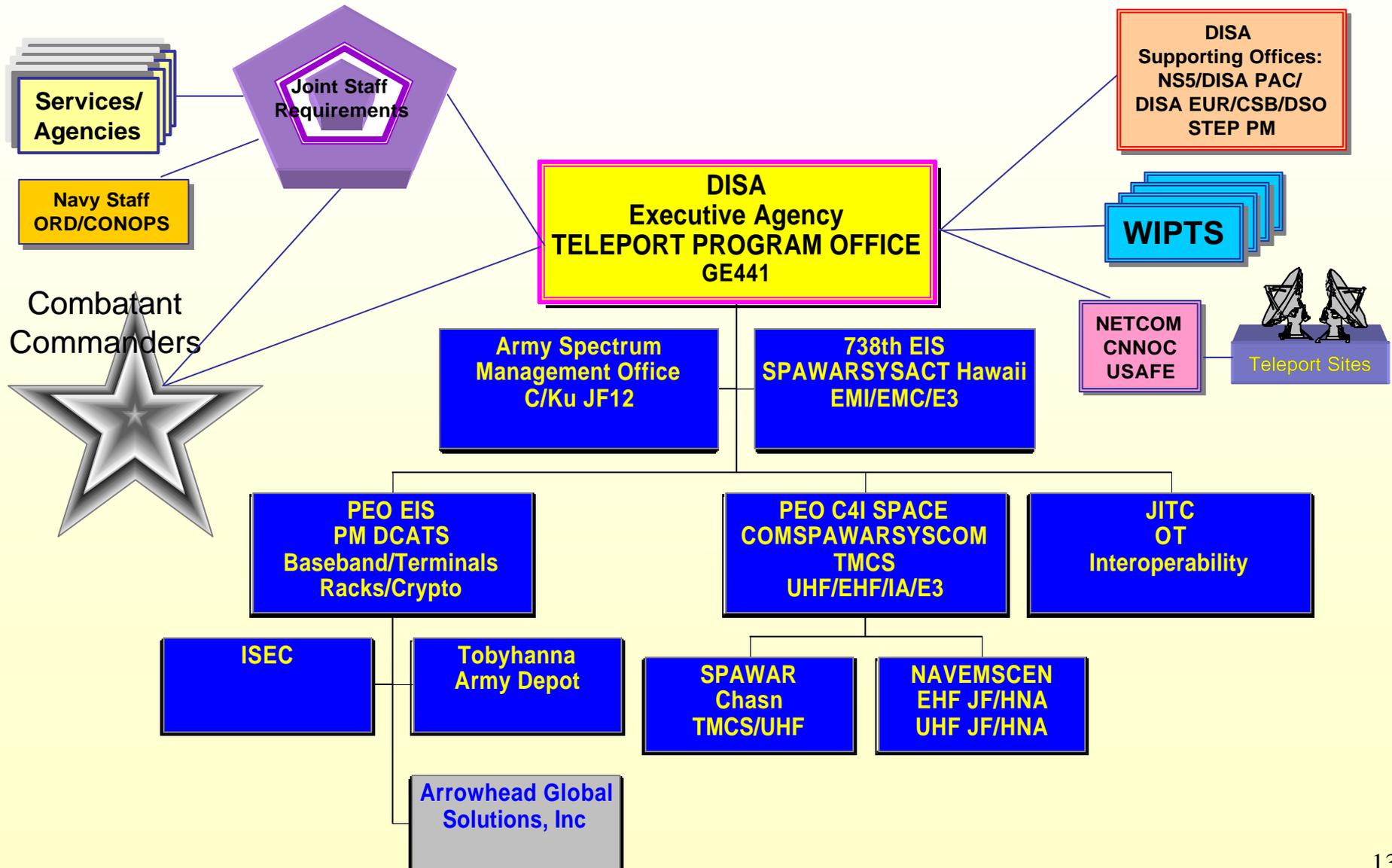
Navy/Marine Corps: navyspectrum@navemscen.navy.mil
(703) 325-2714 / DSN 221-2714

Air Force: affma@pentagon.af.mil
(703) 428-1544 / DSN 221-1544

Joint Spectrum Center: j5divisionchief@jsc.mil
(410) 293-4957 / DSN 281-4957

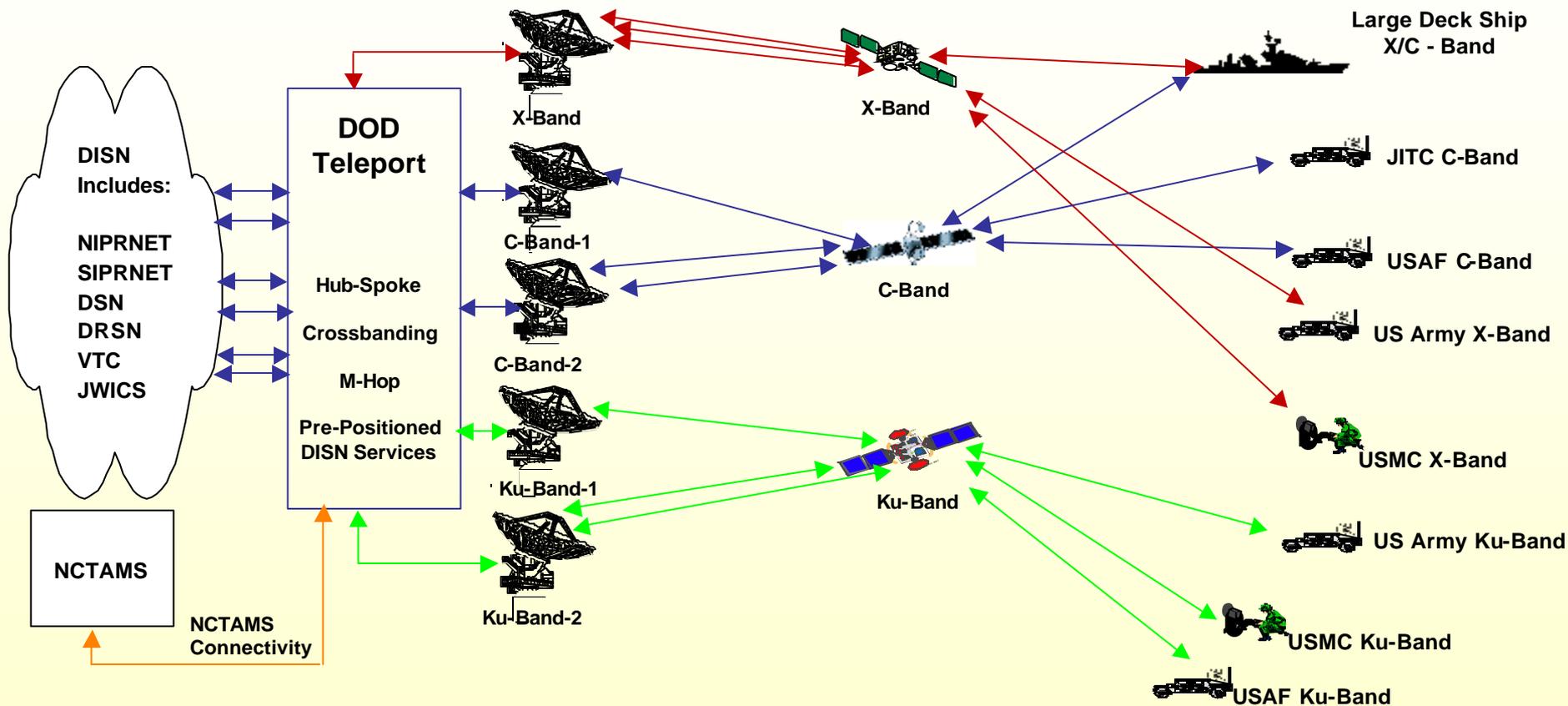


DoD Teleport Team!





DOD Teleports DISN to the Edge



DISN Services to the deployed user

- Secure and Unclassified Telephone Service
- Secure & Non-Secure Internet (IP)
- Video Teleconferencing



Implementation Phases*



- **Generation I (FY 02-06)**
 - **IOC 1 (FY03):**
 - **Implement C, X, and Ku bands (2 core sites & 4 split sites)**
 - **IOC 2 (FY04):**
 - **Implement UHF (2 core sites & 4 split sites)**
 - **IOC 3 (FY06):**
 - **Implement additional C, Ku, UHF and expand to 6 core sites**
 - **Implement EHF (LDR/MDR) and add a secondary site in Bahrain**
 - **IOC 4 (FY06)**
 - **Implement initial Military Ka, & tech refresh consistent with commercial industry standards**
- **Generation II (FY 04-07)**
 - **Expand to include all 2006 Military Ka requirements**
- **Generation III (FY 08-12)**
 - **Implement AEHF, ANS, AWS**
 - **FOC**

* As of 22 SEP 03 based on 15 SEP 03 DRAFT ORD, 28 OCT 02 ADM, & 2 APR 03 ADM,