Multi-National Information Sharing Briefing

AFCEA TechNet

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**Current DISA-Managed Coalition Information Sharing Systems**

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<thead>
<tr>
<th>VDC (MPE IS)</th>
<th>Mission Partner Environment Information System (MPE IS) Virtual Data Center (VDC)</th>
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<td></td>
<td>Provides a multi-enclave virtualization system that delivers the same functions as a physical data center and can host multiple discreet mission enclaves.</td>
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<td>Currently 13 standard COTS applications.</td>
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<tr>
<th>CFBLNet</th>
<th>Combined Federated Battle Laboratories Network (CFBLNet)</th>
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<td>Provides network infrastructure to test technologies and training exercises with mission partners.</td>
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<td>Partnership with 31 core mission partners and 4 guest mission partners.</td>
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<td>11 network service tools.</td>
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<th>Pegasus</th>
<th>Pegasus Five Eyes (FVEY)</th>
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<td>Provides the means for disseminating classified information between Five Eye Nations (FVEY- US, UK, CAN, AUS, NZ).</td>
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<td>FVEY services (Web browsing, Emails, SharePoint, Unified Communications, Chat).</td>
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<td>FVEY National Network Operation Center (NNOC) and Coalition NOC.</td>
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<tr>
<th>CENTRIXS</th>
<th>Combined Enterprise Regional Information Exchange System (CENTRIXS)</th>
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<td>Allows US and coalition Nations and their forces to securely share operational and intelligence information in mission enclaves.</td>
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<td>Bi-lateral and Multi-lateral enclaves connecting 200+ organizations 24/7/365.</td>
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<td>Chat, Email and other COTS services.</td>
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<th>CMNT</th>
<th>Common Mission Network Transport (CMNT)</th>
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<td>Provides a transport for coalition information sharing (Replaces the use of SIPR).</td>
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<td>CMNT is available at any Defense Security Service (DSS) location.</td>
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<th>UISS-APAN</th>
<th>Unclassified Information Sharing (UISS) All Partners Access Network (APAN)</th>
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<td>Provides the single enterprise solution for sharing non-classified info supporting DOD Exercises and Humanitarian Assistance / Disaster Relief Mission.</td>
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<td>&gt;150K+ users, 100+ nations and 4K+ COIs.</td>
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<td>Services (Blogs, Wikis, Conferencing, language translation, chat, email).</td>
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Joint/Allied Coalition Information Sharing
Capabilities

Multinational Information Sharing

- Combined Enterprise Regional Information Exchange System (CENTRIXS)
- Combined Federated Battle Laboratories Network (CFBLNet)
- Common Mission Network Transport (CMNT)
- Pegasus Five Eyes
- Unclassified Information Sharing All Partners Access Network (UISS-APAN)

Mission Partner Environment Information Systems (MPE IS)

- Global Virtual Data Centers (VDC) - 2 Funded, 4 Unfunded
- Mission Partner Gateway
- Enterprise Cross Domain
- Virtual Desktop Infrastructure (VDI)/Multi-Enclave Client (MEC)
- MPE Test Environment
- Common Mission Transport (CMNT) w/Type 1 and Gray Core
- Enterprise-based Pegasus (ECVoIP, GVS, Enterprise Email, DCS)
- UISS APAN Cloud
- UISS-Controlled Unclassified Information (CUI)

Deployed and Operational
Virtual Data Center

VDC provides a multi-mission enclave virtualization system that delivers the same computing, networking, and data storage functions of a physical data center

- Enduring computing infrastructure
- Episodically ready
- Rapid stand up mission enclave in days vs months (Meet “Fight Tonight” Rapid Response)
- Reduces hardware
- Centrally managed, de-centrally executed
- Standard set of services
- Additional service options (e.g. Translation)

Current Deployment:
- 1 node deployed
  - 3 Mission Enclaves
- 1 node funded and under development

Data Center Virtualization: Multiple discrete MEs are converged on a single platform while maintaining distinct network separation.
• A combination of separate multilateral & bilateral networks
• Allows U.S. and mission partner nations & their forces to securely share mission-specific information
• Supports local, regional, and global combined operations including counterterrorism & narcoterrorism
• Regionally focused, COCOM centric

40+ CENTRIXS/coalition networks globally
• 5 networks managed by DISA MNIS PMO
• 200+ sites/locations worldwide combined
• 24/7/365 Help Desk and Support services
• Each network is cryptographically isolated (Type 1 or VPN over GCTF)
• Larger multi-lateral networks have full range of services with cross-domain solutions
• Smaller bi-lateral networks have limited services (e.g., email, chat)
“The CFBLNet is a mission driven organization formed to:
• Evaluate combined C5ISR interoperability shortfalls
• Conduct initiatives
  ▪ Improve coalition information exchange capabilities
  ▪ Explore and experiment with emerging capabilities or
  ▪ Examine resolve deficiencies in existing applications, systems or
    equipments.
• Access potential solutions through the utilization of agreed
  upon phased assessment procedures.
• Report the shortfalls of those assessments.
• Recommend the means to foster improved combined CIS
  (communications and information systems) for the explicit
  purpose of promoting near term concepts and acceptance of
  solutions.”

* Note: An initiative is an experiment, test, demonstration or other activity [including training] utilizing the CFBL Network infrastructure and services.

CFBLNet provides an offline closed network for testing and resolving existing operational issues identified by the U.S. and Coalition Mission Partners to include the Intelligence, Surveillance, and Reconnaissance (ISR) Community.
CMNT

- CMNT = Common Mission Network Transport
- CMNT met the requirements vetted and prioritized in accordance with the Chairman of the Joint Chiefs of Staff Instruction (CJCSI) 6285 process
- CMNT Layer 3 VPN provides a common transport for encrypted CENTRIXS, BICES, BILAT and other coalition operational network encrypted traffic, instead of using SIPRNet
- CMNT Initial Implementation (Pilot) spanned over two phases
  - Phase I of CMNT pilot was implemented on CENTRIXS-CMFP in July 2012; Operational assessment during RIMPAC 2012 & RIMPAC 2014
  - Phase II of CMNT Pilot, which was implemented, on two of the bilats at the USPACOM AOR, was completed Dec 2012 and Feb 2013, respectively
  - Expansion in progress at 42 locations which was specified by JS J6, CCMDs and DoD CIO
- Compared to SIPRNET
  - Reduces the number of IP Encryptors involved in the end to end connection.
  - Reduces Network Overhead incurred by SIPRNET connections which requires more backbone overhead since it tunnels over the Unclassified DISN CORE backbone.
Pegasus

- Pegasus is an initiative to expand information sharing among the Combined Communications Electronics Board (CCEB) nations (AUS, CAN, NZ, UK, US)
- The Pegasus initiative interconnects national networks and associated national systems and services
  - Each nation is developing its national gateway to proxy services and protect their national infrastructure
- **Current operational services include:** Web Browsing, CWAN, Email with attachments, US-UK chat, FVEY SharePoint, Secure Voice, NNOC, CNOC

Pegasus/FVEY Sustainment

- 2 service delivery nodes
- 33,000+ registered users
- FVEY services (Web browsing, Email with attachments, SharePoint, Unified Communications, Chat)
- Additional collaborative services planned
- FVEY National Network Operation Center (NNOC) and Coalition NOC
APAN is a web-based, unclassified non .mil internet community accessible to the DoD & its mission partners around the globe without the constraints of traditionally closed DoD networks.

APAN provides an unclassified information Sharing & Collaboration platform for various government, non-government, state & federal agency, international organizations & multinational partners an area to communicate & support humanitarian crisis response efforts, multinational & joint exercise planning, working conferences and groups & partnership building events.
DEFENSE INFORMATION SYSTEMS AGENCY
The IT Combat Support Agency

UNITED IN SERVICE TO OUR NATION