

Multinational Information Sharing

8 May 2012

Version 3

MNIS Mission Space



ENTERPRISE INFRASTRUCTURE

- Common Mission Network Transport (CMNT)
- Combined Enterprise Regional Information Exchange System (CENTRIXS)
- Pegasus
- Unclassified Information Sharing Service (UISS)
- Combined Federated Battle Laboratory Network (CFBLNET)



Command and Control

Unity of Effort

Technology Evaluation

PEGASUS

- Collaborative environment interconnecting the national C2 systems of Combined Communications Electronic Board (CCEB) nations
 - Voice over IP (VOIP)
 - Email
 - Chat
 - Web Browsing
- Persistent secret releasable “network” to support strategic communications and planning with partner nations
- Technology and policy issues in the way ahead:
 - Lack of VOIP infrastructure in partner countries
 - Chat consolidation and interoperability
 - Impact of US deployment of Public Key Infrastructure (PKI)



CFBLNET

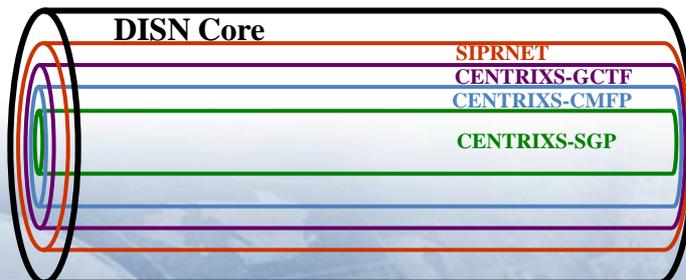
- Controlled Trials and Assessment capability for U.S. and coalition forces to assess secret level C2 technologies in a simulated operational environment
- Representative capabilities include:
 - DNS & NTP
 - Email
 - Active directory
 - Portal
 - Web services
 - VoIP Call Manager
 - Collaborative tools
 - Network management
 - Network monitoring
 - Remedy trouble ticketing
 - Bandwidth management
 - Keymat distribution
 - Network security
 - Cross domain assistance
 - Accreditation
 - Site survey
 - Installation
- Capability and service enhancements:
 - Transitioning CFBLNet from ATM to IP transport
 - Simplified cost structure for existing customers (flat cost level, lower than any one customer currently pays, for a single enclave of service)



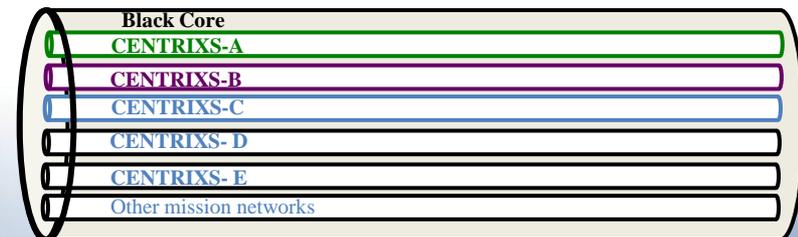
CMNT

- Dedicated Network Transport for coalition information sharing (not SIPRNet)
- Aimed at improving/resolving problems in the current MNIS mission space:
 - Minimize loss of critical C2 networks
 - Improve monitoring capability for cyber defense
 - Reduce time to resolve network issues
 - Reduce infrastructure requirements
 - More efficiently use bandwidth
- Leveraging DISN modernization efforts

As-Is CENTRIXS Transport



To-Be Mission Transport

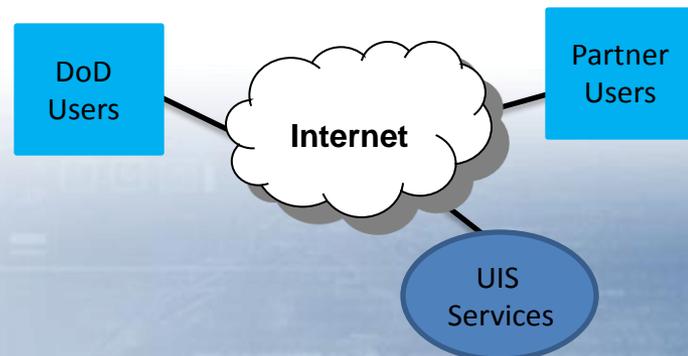


CMNT Way Ahead

- Initial implementation underway in Pacific Theatre of operations
 - Working in cooperation with US Pacific Command, Joint Staff, and DoD CIO to demonstrate proof of concept
- Assessment of technology, cost, and operational benefits will determine timing and location for expansion plans in fiscal year 2013 and beyond
- Challenges being addressed in coordination with sponsor, customer, and coalition partners:
 - Business Model for CMNT as enterprise service
 - Network management model (establishing boundaries and reporting responsibilities)
 - Information assurance approach (accreditation boundaries)
- Informs the architecture approach for the Future Mission Network (FMN)

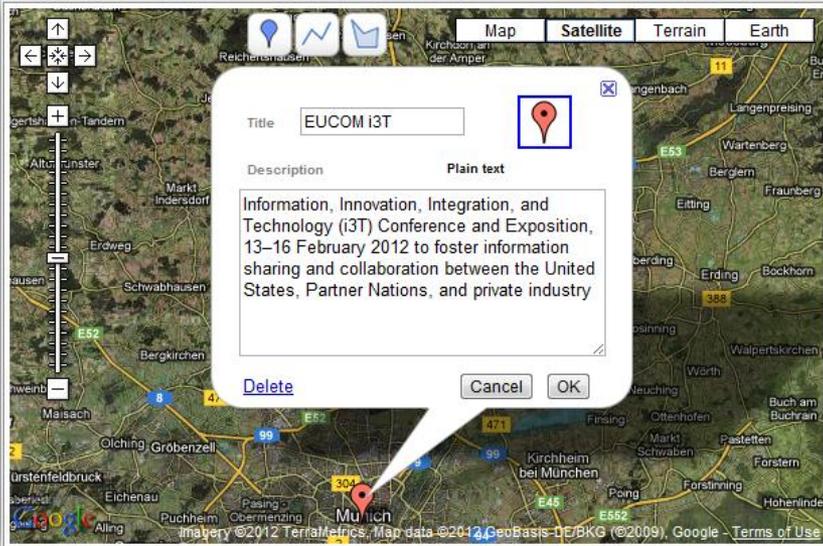
UISS

- Unclassified social-networking and situational awareness capability to enable efficient and effective collaboration with traditional and non-traditional mission partners
 - Support of Humanitarian Assistance / Disaster Relief (HA/DR) & Stability, Security, Transition, and Reconstruction (SSTR) Missions
 - Accessible by any partner, anytime, anywhere
- www.apan.org (All Partners Access Network)
 - Email, calendar, Blogs, multilingual Chat, multilingual user interface, file sharing with data tagging, wiki, geospatial displaying and reference, automated information feeds, social networking, alerting, language translation, text messaging
- Two services today under DISA management:
 - APAN
 - HarmonieWeb



UISS Planned Enhancements 2012

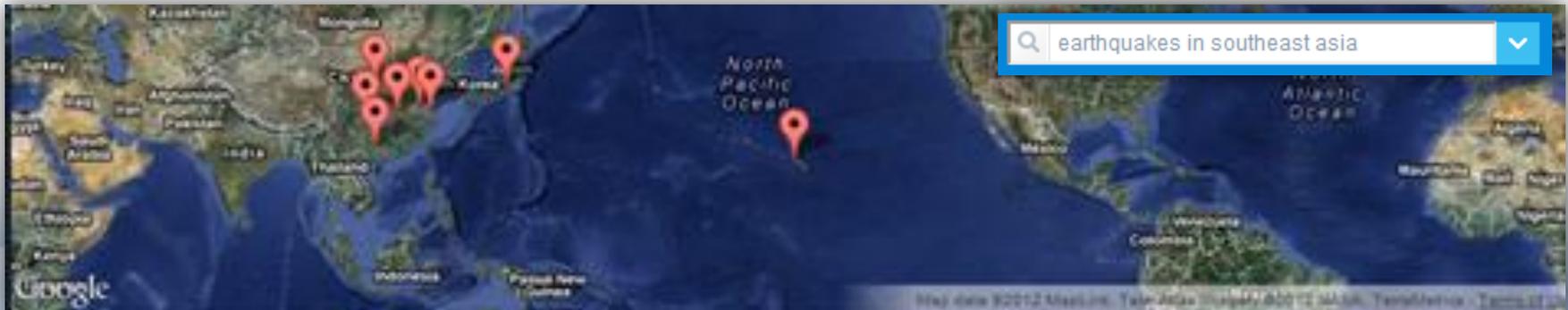
Improved Manual Geotagging



Automatic Geographic Referencing



Geographic Search And Analysis



Automatic geospatial indexing through MetaCarta appliance

UISS Planned Enhancements 2012

- Enhanced Microsoft Product Integration (SharePoint 2010)
- Enable customers to embrace NOT replace technology they have invested in; allowing APAN to provide the social layer that adds new collaboration capabilities to meet mission and business objectives
- Emphasis on the idea that *conversation around content* just as important as the information itself (not just files in folders)
- Integrated search across Telligent and Microsoft platforms
- Develop training plan that demonstrates how APAN's social layer can be used in conjunction with Microsoft platforms in support of HA/DR, exercises, conferences, organization communications and business/mission objectives (business cases)



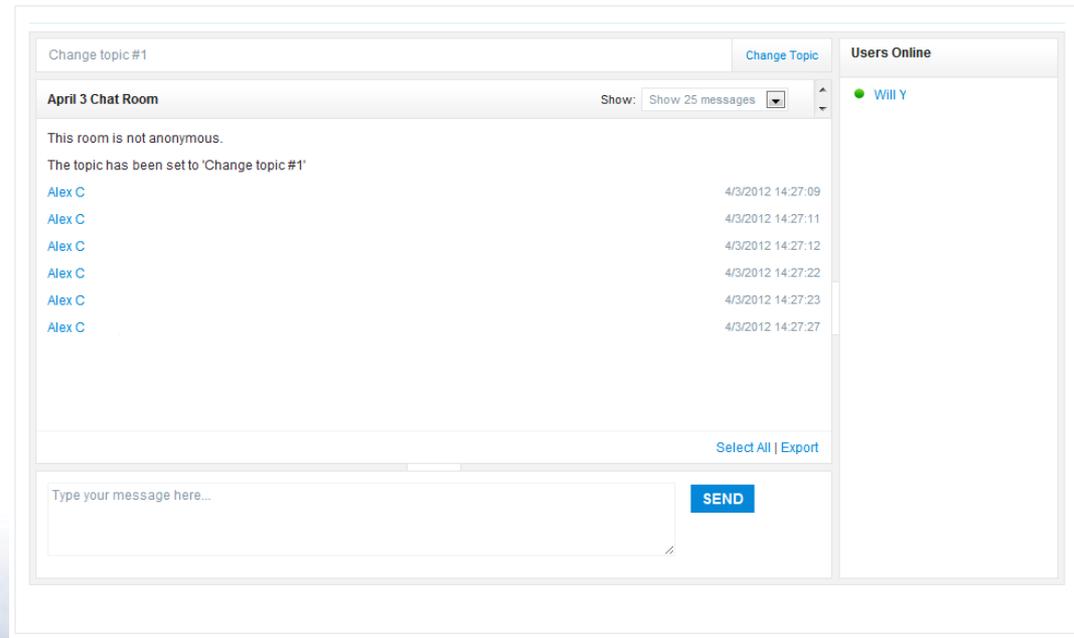
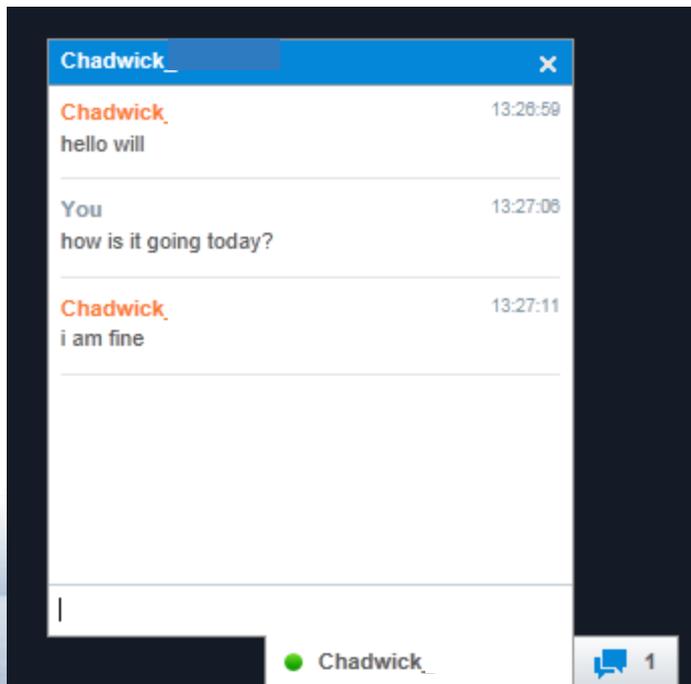
UISS Planned Enhancements 2012

- Organic Translation Service (within UISS)
- Utilize SYSTRAN Enterprise Server – Global Edition
- File Translation (TXT, DOC, DOCX, PPTX, XLSX, PDF, RTF, HTML, XML)

<p style="text-align: center;">52 hybrid language Pairs</p>	<p>English↔Arabic English↔Chinese English↔Dutch English↔French English↔German English↔Greek English↔Italian English↔Japanese English↔Korean</p>	<p>English↔Polish English↔Portuguese English↔Russian English↔Spanish English↔Swedish French↔Dutch French↔German French↔Greek French↔Italian</p>	<p>French↔Portuguese French↔Spanish German↔Italian German↔Portuguese German↔Spanish Italian↔Portuguese Spanish↔Italian Spanish↔Portuguese</p>
<p style="text-align: center;">37 additional language pairs</p>	<p>Albanian→English Arabic→French Bulgarian↔English Chinese→French Croatian→English Czech↔English Danish↔English Dari→English Estonian→English</p>	<p>Farsi→English Finnish↔English Hindi→English Hungarian↔English Hungarian→French Latvian↔English Lithuanian↔English Norwegian↔English Pashto→English</p>	<p>Polish→French Romanian↔English Serbian→English Slovak→English Slovenian→English Tajik→English Turkish↔English Ukrainian→English Urdu→English</p>

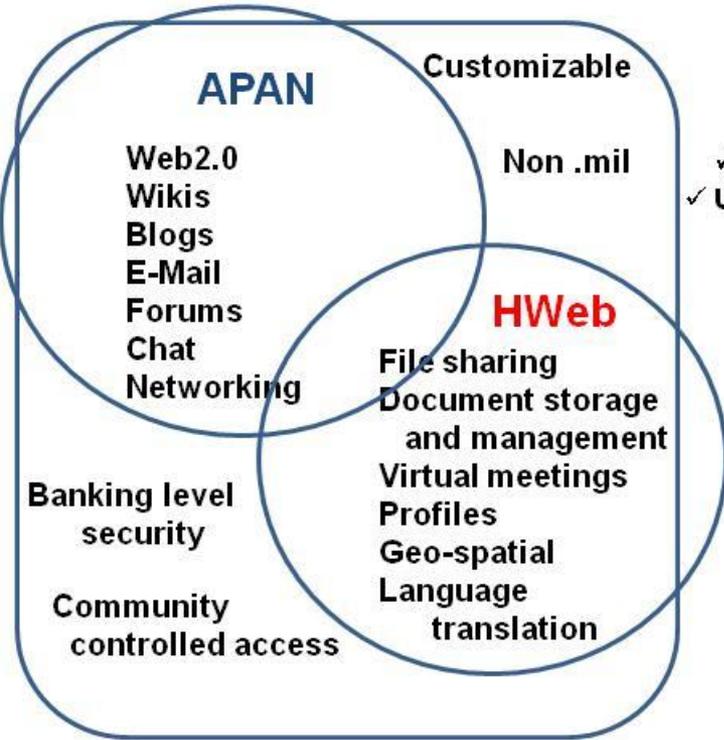
UISS Planned Enhancements 2012

- Enhanced APAN Chat
- XMPP/Jabber-based to allow external clients to collaborate within the APAN community of users
- Embedded client for peer-to-peer real-time communication
- Group-based chat room for multi-user collaboration



UISS Way Ahead

Governance, Requirements Management, Policy



Today's Environment

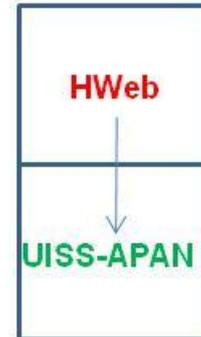
- ✓ DISA Managing HWeb
- ✓ USPACOM Managing APAN

- DISA Stands up UISS
- HWeb migration begins

- HWeb migration to UISS completes



FY11



FY12



FY13

Funding, DECC Hosting, Configuration Control, Research and Development, Testing

*One Solution:
Unclassified; Non-dot-mil; Gateway to DoD*

Summary

- Evolving toward a Future Mission Network (FMN)
 - Transport
 - Enterprise Services
 - Cross-Domain/Cross-Enclave Solutions
 - Reference Architectures for Common Desktops
- Collaborating with Coalition Partners, DoD CIO, and Joint Staff
 - Culture
 - Policy
 - Funding
 - Technology
- Fielding capabilities through an iterative approach
 - Materiel solutions
 - Non-Materiel solutions



More Info

<http://www.disa.mil/Services/Command-and-Control/MNIS>



QUESTIONS

