CENTRIXS

Combined Enterprise Regional Information Exchange System

Supporting Coalition Warfare World-Wide

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What is CENTRIXS?

Coalition Information Sharing Network(s): Secure, robust connectivity between U.S. forces and their coalition partners. Premier solution for coalition military operations.

Program: Established January 02 at the request of the Combatant Commands to support the GWOT; currently managed by CENTRIXS Program Management Office (CPMO) at Assistant Secretary of Defense for Networks and Information Integration (ASD, NII). CPMO will be absorbed by the new Multinational Information Sharing (MNIS) program.

Concept: “Plug and Play” coalition interoperability anywhere in the world; a standard for coalition information sharing networks used by all DoD components

Still growing; desperately need a certified multi-level security solution.
**Operational Requirements**

**Coalition Warfighting:** Responsive and unified communications and information exchange across combined forces region-to-region… for planning, unity of effort, decision superiority, and decisive global operations.

**Bilateral Exchanges:** Secure intelligence and information exchanges between participating nation and U.S. per Memorandum of Agreement.
Global CENTRIXS Concept

NORTHCOM & SOCOM

JFCOM

EUCOM

CENTCOM

SOUTHCOM

PACOM

US EMBASSY CONNECTIONS THROUGH THE DIPLOMATIC TELECOMMUNICATIONS SERVICE OR SIPRNET TUNNEL

Central化管理

CENTRIXS NETWORK CONTROL CENTER

Coalition Village

Partner Nations

AOR US Embassies

Regional Servers

Partner Nations

AOR US Embassies

US Ships

Fleet Forces Command

Multi-National BICES (NATO Nations)

EUCOM LOCE

NIDTS (CRONOS)

Partner Nations

AOR US Embassies

Regional Servers
Functional and Information Requirements

• Functional
  – Web-browser-based data sharing
  – E-mail with attachments
  – Secure voice over IP
  – Near-Real-Time data access and display
  – Collaboration – chat

• Information
  – Data sharing for common awareness (up to SECRET Releasable)
  – Operations, Intelligence, and Mission Data
  – Enemy information databases
  – Imagery
  – Near real-time situational data displays
Future Requirement
Ultimate End State

Evolve the separate networks (requires technology and policy advancements) into a single global network capable of creating secure, dynamic, Communities of Interest (select subset of nations) from a single workstation.

End State not likely before 2016!

EVOLVING TECHNOLOGIES:
Multi-Level Security (MLS)
Net-centric Multi-level Information Sharing

- Seamless secure interconnected information environment
- Labeled data – metadata tagging
- Recognizes who you are: limits access based on who/where you are
- Secure interoperability within/across DoD and international partners
- Common infrastructure
Cross Domain Solutions

- USCENTCOM requested expeditious certification of specific guarding solutions

- Guarding solutions needed now for more effective C2:
  - Web browse-down
  - Cross domain chat
  - Reverse OWL guard (low to high)
  - New generation DII guard
  - Type 1 accredited VPN
Coalition Information Sharing--The Challenge

Global Counter-Terrorism Forces (GCTF)
66 countries participating in Operation Enduring Freedom (OEF)

Combined Naval Forces Central Command (CNFC)
11 countries, subset of GCTF

Multinational Coalition Forces-Iraq (MCFI) 51 countries participating in Operation Iraqi Freedom (OEF)

International Security Assistance Forces Afghanistan (ISAF)
33 countries supporting reconstruction effort (NATO led)

4 Eyes

NATO
Coalition Information Sharing--The Solution Today

- **CENTRIXS—Global Counter Terrorism Force (GCTF):**
  - Information sharing tool for OEF
  - Primary system used by Coalition Naval Forces CENTCOM (CNFC is a Virtual Private Network within CENTRIXS-GCTF)
  - Planned primary system for coalition operations in Horn of Africa
  - Anticipated primary system for reconstruction teams and Combined Forces Command-Afghanistan

- **CENTRIXS—Four Eyes (CFE):**
  - Standing planning network (USA/AUS/CAN/GBR)
  - Using to facilitate air ops

- **CENTRIXS—Multinational Coalition Forces-Iraq (MCFI):**
  - Information sharing tool for OIF
  - Primary secure data system
  - Largest network; many continental US based users too

- **CENTRIXS—Bilaterals**
  - Information sharing tool with single nations

COCOMs forced to build multiple separate networks for coalition operations.
CENTRIXS-GCTF

Over 30 sites, over 2,500 users ... and growing!

Capabilities

- Office Automation—MS Office; Web (CENTRIXS Central); Google Search
- Database/file sharing (operations, intelligence, mission data)
- Filtered situational awareness display picture (near-real-time platform tracks)
- Collaboration—Net Meeting; chat
- Voice over internet protocol (VoIP)
CENTRIXS-Four Eyes

Over 10 sites, over 3,000 users ... and growing!

Capabilities

- Office Automation—MS Office
- Database/file sharing (operations, intelligence, mission data)
- Filtered situational awareness display picture (near-real-time platform tracks)
- Collaboration—Net Meeting; mIRC
- Limited Voice over internet protocol (VoIP)

Secret Internet Protocol
Router
Network

Tracks

Imagery

Data base

File
Via FDO

E-mail

Tracks

Joint World-Wide Intel Comms System

CFE
CENTRIXS-MCFI

Capabilities
- Office Automation—MS Office; Web (CENTRIXS Central); Google Search
- Database/file sharing (operations, intelligence, mission data)
- Filtered situational awareness display picture (near-real-time platform tracks)
- Collaboration—Net Meeting; Coalition Chat Line; IWS (Iraq); chat
- Limited Voice over internet protocol (VoIP)

Over 75 sites, over 10,000 users ... and growing!

Operational

Pursuing
Future Operations
Facts / Assumptions

• POLITICAL: Dynamic political environment keeps coalitions separate/changing.
  ASSUMPTION: Multiple coalitions likely to continue

• POLICY: Disclosure constraints limit CENTCOM’s ability to effectively command and control coalitions.
  ASSUMPTION: “Releasability” guidance and constraints will continue

• PHYSICAL: What’s the future for continued coalition ops at CENTCOM?
  ASSUMPTION: Partner countries will remain at CENTCOM

• TECHNICAL: Many secure network technologies and cross-domain solutions still in concept & testing phases.
  ASSUMPTION: New solutions not able to be fielded in short term
Way-Ahead
Coalition Information Sharing

• **Support new Multinational Information Sharing (MNIS) program**
  – Consolidates program management of current coalition systems:
    • Combined Enterprise Regional Information Exchange System (CENTRIXS)
    • Globally Reaching Interconnected Fully Functional Information Network (GRIFFIN)
    • Combined Federated Battle Laboratory Network (CFBLNet)
  – Single multi-national, multi-level information sharing environment at tactical, operational and strategic levels (Secret and below)

• **Maintain CENTRIXS as solution of choice within USCENTCOM**
  – 3 networks likely to continue into the future (GCTF, CFE, MCFI)
  – Seek near-term opportunities to improve CENTRIXS; expand as required
  – Operationalize/Institutionalize CENTRIXS in USCENTCOM
  – Ensure CENTRIXS is supported until MNIS is fielded