Networking to Enable Coalition Operations

Study Outbriefing

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The Need for Coalitions

- Coalition relations are an important instrument of foreign policy
- Coalition warfare is becoming increasingly important to the nation
  - The U.S. will almost always conduct operations as a member of a coalition of the willing, most often as the lead
  - The Global War on Terrorism will mandate diverse contributions and political support of non-traditional coalition partners
  - Coalition partners sometimes have capabilities the U.S. does not
  - Future force reductions may increase dependence on coalitions
  - Coalition support is essential for achieving the peace after combat operations
- In today’s world, information is dramatically more important; Networks are the mechanism for sharing information
- Effective networking is based on trust developed through coalition training, exercises, and operations
- More effective use of coalition and treaty partners’ capabilities will reduce U.S. ops tempo and improve effectiveness
NECO Study Charter

- Consider approaches for a **networked collaborative process**, and the systems that support it, to provide more effective coalition forces for future operations

- Suggest **technology releasability guidelines** for potential coalition partners

- Develop **guidelines for Operational Concepts** for a networked coalition

- Identify a set of **high payoff opportunities** for enhancing interoperability while maintaining a proper level of security among component systems

- Propose a roadmap for integrating or federating US and ally/coalition partner systems into a net-centric system-of-systems to enhance collaboration
Coalition Operations - Current State

I n t e g r i t y - S e r v i c e - E x c e l l e n c e
What the Warfighter Wants…

- Every coalition member has access to the data they need to do their mission

- Coalition members are confident that the information they share will only be disseminated to the extent needed to support the mission

- Coalition members are able to collaborate with one another in real-time over secure systems (and, where appropriate, fill positions in the CAOC Weapon System)
Concept for Future Coalition Operations
Metadata Derived Releasability

Metadata Tags
- Data Content
- Data Context
- Data Structure

Releasability = Function (Originating Nation, Information Content, Role of Consumer, Nationality of Consumer)

Automated Metadata Derived Releasability requires:
- New technology
- Comprehensive data management and tagging strategy
- Scalability and security analysis
- Experimentation
- Coalition collaboration throughout
Coalition Operations – End State

Coalition Collaborative Enterprise

- OTHER
- CHAT
- E-MAIL
- APPLICATIONS
- DATA BASES
- NETWORK

COC

CAOC
Recommendations

TRAINING:
Aggressively promote and influence multi-agency system developments essential to effective coalition operations

OPERATIONAL CAPABILITIES:
Designate the “CAOC as a weapon system”

TECHNOLOGY:
Aggressively promote and influence multi-agency system developments essential to effective coalition operations

SYSTEMS:
Establish a distributed coalition network environment that will enable and encourage coalition nations to develop interoperable C2 systems