Flowing Focused and Relevant Information to the Edge through Semantic Channels

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Overview

- Network-Centric Enterprise Roadmap
- Semantic Channel Concept
- Semantic Channel Example
- Semantic Foundation
- Enterprise Insertion Challenge
- Steps towards Semantic Channels
- Preliminary Army Results
- Contact Info
Network-Centric Enterprise Roadmap

Semantic Channels

- Enterprise Tele-Presence
- Enterprise Asset Virtualization
- Enterprise Process Fusion

Service Oriented Enterprise (Extension of SOA)

Decision Superiority

Information Superiority

Network Centric Enterprise Maturity
Semantic Channel Concept

Intuitive interconnectivity
Intuitive information
Intuitive Decisions
Intuitive Services

Profile Input

Enterprise Relationships
Semantic Channel Example
Semantic Foundation

- Period of consideration
- Timeline
- Mission Area
- Organization
- System
- Capability
- Military Operations
- Environment
- Enterprise Management
- Locale
- Guidance

- Warfighting
- Business
- Intel Services
- Information Services
- Functionals
- Units
- Agencies
- Offices
- Commands

- Main System
- Supporting Systems
- Supported System
- Range of Military Operations
- Main Capability
- Supported Capability sets
- Supporting Capability sets

- National
- Inter-Agency
- Domestic
- Institutional
- Sustaining-base
- Strategic
- Operational
- Tactical

- Range of Military Operations
- Main Capability
- Supported Capability sets
- Supporting Capability sets

- Drivers
- Concepts
- Req’ts- (dev docs)
- Decisions
- Resourcing
- Engineering
- Analysis
- Demonstration
- Fielding
- Lessons learned

- Echelons
- Theaters
- Other key locales

- Architectures
- Policies
- Regulations
- Directives
- Standards
- Compliance
- Doctrine

- Warfighting
- Business
- Intel Services
- Information Services
Enterprise Insertion Challenge
Steps towards Semantic Channels

- **Establish Compelling Pattern**
  - Simple, “Google-like” Interface
  - Support Multidimensional Filters
  - Display & Navigate Results via Portlets
  - Local Development & Federated Governance
  - Centralized Architecture & Framework Funding
  - Immediate, Local Benefit

- **Spiral Delivery to the Enterprise**
  - Institute Governance and Change Management
  - Define Roles and Policies
  - Define Decision Cycle Information Set
  - Identify Authoritative Information Sources
  - Establish Triggers, Transforms and Filters
  - Develop Enabling Services
### AFATDS (6.3.2.0)

**Description:**
ADVANCED FIELD ARTILLERY TACTICAL DATA SYSTEM. The AFATDS is an automated fire support command and control (C2) system. AFATDS automates the fire planning, tactical fire direction, and fire support coordination required to support maneuver from the sea and subsequent operations ashore.

**Operational Impact:** AFATDS is the primary Commanders Fire Support Coordination System employed from MEF to Battery level operations.

**Associated Functional Capabilities:**
- C2
- Communications
- Fails

**Related Architecture:**
- 3D Architecture (AFATDS)
- 4D Architecture (AFATDS)

**System Characteristics**

- **System Components:**
  - [Table Detail]

- **Quantity Fielded:** 817
- **AAO:** 531 (Approved)
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