Logistics Information Fusion

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Themes

• Rapid efficient delivery of outcomes
• End-to-end Supply Chain Visibility
• Service-Oriented Logistics
  – Logistics business processes meeting user needs
  – Services accessed to deliver business processes
  – Deploying new services with existing applications
  – Processes re-configured as required
  – Transparent applications/products
• Integration of Industry into Joint & Coalition Supply Chain
• Capability-led transformation of IT
The New Battlespace

Demand-Driven, Knowledge-Driven

- Critical asset visibility
- Interoperable joint communications to the tactical level
- S&R knowledge-based environment
- Rapid configuration, re-configuration, and delivery of mission-ready capabilities
- Cross-service, cross-organizational
- Uses transparency, transportation flexibility and robust IT to leverage uncertainty and manage risk
- Dynamically managed inventory of capabilities

Source: OSD, Office of Force Transformation

“7 Attributes of the Future Joint Force”
Quantum Leaps of Change

Capability

- Stove-piped service delivery
- Limited access to data
- Redundant systems
- Inconsistent data
- Multiple special purpose platforms

2012 Target Configuration

- GCSS (Integration Bus, Web Services, XML)
- ERP - Finance
- ERP - ERP SCM
- ERP - Personnel
- Legacy

2025 Target Environment

- Weapons System & Mat Supply Management
- Operational Support C2
- Real Prop & Installation Lifecycle Mgmt
- Maintenance
- Financial Management
- Other Support Functions
- Human Resource Management
- Medical
- Warfighter

Joint
Coalition

- User centric processes
- Web based and collaborative
- Shared Services - Build Once/Use Many
- Shared Data - Enter Once/Use Many
- Centralized security and controls

Source: An ECS Perspective, Mr. Frank P. Weber, Director, 554th Electronic Systems Wing, Hanscom AFB, MA, on behalf of Lt Gen Charles Johnson, Commander, ESC/CC, AFCEA Montgomery Information Technology Summit, May 23, 2006
Fusion of Services & Capability

Evolutionary Roadmap

**Capability**
- Net-Centric Operations
  - Interoperability
  - Fusion
  - Synchronization

**Services**
- Logistics Decision Support
  - Emerging
- Information Management/Exploitation
  - Emerging
- Transaction Processing
  - Emerging

**Technology**
- Infrastructure
  - Emerging
- Data Provision
  - Emerging
A Well-Fused Information Supply Chain
The Industrial Benchmark of Moving Data To Create An Outcome

NASDAQ Composite Performance over 40 Years

Suppliers
Sellers

Standard Set of Data

Standard Set of Automated Transactions

Knowledge Networks To Sense & Respond

Self-Healing, Self-Correcting, Incremental Improvement

Abundant Channels, Brokers of Services

Regional & Global Governance

Customers
Buyers
Bringing It all Together

Illustrative

Provisioning of Source Data
Consolidation & Modernization of Infrastructure
Deploying Interoperability Standards and a Services Platform
Operationalizing Logistics Automation & Broad Decision Support Tools

Change Managing The Capability Portfolio

Improved Data Accuracy
Reduce Complexity of Applications
Application Modernization
Edge Visibility
Enterprise Information Management & Service Governance
Logistics Interoperability
Logistics Fusion
Logistics Synchronization

Value accumulation per time period

Mission Value

Consolidation & Modernization of Infrastructure

Artificial Intelligence, Self-Healing, Self-Correcting
A Point of View

Logistics Technology

- Hardware
- Software
- Sensors

Logistics Services

- Transformation
- Change Management
- Governance
- Portfolio Management