Knowledge Management in a Net-Centric Environment

Col Mark J. Lorenz
Chief, IT Insertion
HQ USSTRATCOM/J656
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This Briefing is UNCLASSIFIED
Research and evaluate Knowledge Management (KM) IT enabling tools for near-term implementation.
(e.g. information sharing, collaboration, search, messaging, alerting, portals)

Establish a user definable portal capability that integrates explicit & tacit knowledge to support day-to-day business and warfighter processes.

Desired Results: (KM a means to an end)
• Improve awareness of, access to, & exchange of intellectual capital
  • Improve decision timeliness, accuracy, awareness
  • Improve process timeliness, accuracy, efficiency
• Raise intellectual capital
• Reduce duplication work
Objective of Net-Centric KM

Before

Hours

Execution

Decision Makers

Facts
Unknowns
Assumptions
Historical
Analogies
Decision
Risk

%

Mission Analyst

Facts
Unknowns
Assumptions
Lessons
Learned
Accuracy
Risk

%

After

Minutes

Execution

Decision Makers

Facts
Unknowns
Assumptions
Historical
Analogies
Decision
Risk

%

Mission Analyst

Facts
Unknowns
Assumptions
Lessons
Learned
Accuracy
Risk

%
Proposed Net-Centric IT Environment

Decision Dissemination Delay
- Minutes
- Hours

Presentation Delay = Data Entry Delay

Data Collection Delay
- Min, Hrs, Days

Stovepipe Access
- Unclass:
- Secret:
- Other:

Data Entry Delay
- Sec, Min, Hrs, Days

Mission Analysts (MAEs) & Subject Matter Experts (SMEs)

Execution
- C2

Decision Makers
- Portal
- Portal
- Portal

Portlets
- WSs
- WSs
- WSs

WS = Web Services (XML, SOAP, HTTP)

Human (“Every Soldier is a Sensor”)

Sensors

Unknwowns

Ground Truth
Net-Centric IT Environment

UDOP = User Defined Ops Picture

Portal

Lowest Common Denominator
Web Browser
HTTP Port 80 & 443
XML, SOAP
Single Sign-On (SSO)

Force Readiness
Intelligence
Battle Space

…. Etc.

Machine to Machine
Data Exchange & Fusion

Data Fusion via
WS Orchestration

UDOP

= Portlets or Webparts

DBs

WSs

WSs

WSs

WSs

DBs

DBs

DBs

DBs

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Net-Centric IT Environment

Lowest Common Denominator
Web Browser
HTTP Port 80 & 443
XML, SOAP
Single Sign-On (SSO)

Data Fusion via WS Orchestration

Concentrate Web Service Support and Data Analysis

Force Readiness
Intelligence
Battle Space … Etc.

UDOP= User Defined Ops Picture
= Portlets or Webparts
Net-Centric IT Issues

- Information Requirements and Renderings
  - CCIRs, RFIs, etc.
  - Net-centric in tactical environment
  - Net-centric in strategic MAPDER Environment
    (monitor, assess, plan, decide, execute, report)

- Access Policies
  - Authentication, Authorization
  - Enterprise Single Sign-On

- Lack of Common IT baselines
  - Ports
  - Protocols
  - Browser settings & plug-ins

- Web Service Configuration Mgt Strategy
  - Backward compatibility
  - Transition time
  - Reliability
Knowledge Management in a Net-Centric Environment

Questions/Comments?