SOA Business Model for DoD

A Service-Oriented Architecture (SOA) Business Model for the US Department of Defense (DoD)

Presented October 21, 2008
Overview of presentation

• How is DoD viewed today?
• How is SOA related to net-centricity?
• What would be a more SOA-like approach look like?
• Conclusions
How Is DoD Viewed Today?

- This “systems view” divides activities into various “mission areas”
  - Warfighting
  - Intelligence
  - Business
  - Infrastructure
- In doing so, this complicates the interfaces between areas
- Also, “business” occurs in all these areas

See Global Information Grid Architectural Vision, June 2007
How Is SOA Related to Net-Centricity?

• DoD defines net-centricity as “the realization of a networked environment, including infrastructure, systems, processes, and people, that enables a completely different approach to warfighting and business operations.”*
  
  • The idea is to use the global network to provide warfighters and decision makers with the information they need, when they need it, in a secure environment

• Service-Oriented Architectures provides a means to package business processes as interoperable services
  
  • Hence, it is seen as a means to implement net-centricity

See DoD Net-Centric Data Strategy, May 9, 2003

So does the current model lend itself easily to SOA?
Simple Example: A Basic SOA

So how can we apply this to DoD’s needs?
Proposed SOA Business Model for DoD

Product and Service Providers
- Information/Data
- Content
- Services

Information & Service Consumers
- Needs & Plans
- Feedback
- Information, Services, Plans & Status

DoD Enterprise Services (e.g., CES)

Information & Service Brokers (Process)
- Transaction Support; Decisions
- Market Status

Value-Added "Resellers" (Process)
- Intelligence (Post)
- Read Data & Information

Exchange Regulators (Guidance)
- Domain & COI Establishment, Monitoring and Control
- Business Rules
- Regulations
- Policies

e.g.: Intelligence Analysts, Algorithm Developers

e.g.: Decision Makers, Chain of Command, Expediters

TPPU + G

All Domains and COIs
Conclusions

• Net-centricity can provide significant benefits to warfighters and decision makers
• SOA can provide an effective means for implementing net-centric principles
• By adopting a business model that cuts across the organizational boundaries, we can reap the benefits of DoD’s vision for net-centricity