Frameworks, As Proven Tools for Functional Interoperability, Need Managed Evolution

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Topics For Discussion

• COE and J MPS as application Frameworks

• Frameworks provide fiscal leverage and interoperability

• The ISSUE

• Summary

• Recommendations
Leverage from DII COE

$7B Program
Funding (est)

Considerations:
- Requirements Management
- Architecture Oversight Groups
- Backwards Compatibility
- New Technology Insertion
- Configuration Management
- Community Process
- Developer Support (SDKs)

~$20M/Year (contractor)
Leverage from JMPS

$1B Program
Funding (est)

$90M Development, $10M/yr
Supporting the Frameworks

Primary Issues

• **Frameworks Aren’t Programs of Record – Lack Visibility**

• **Annual support funding flat**
  – Must support maintenance of all fielded programs, those in production and development

• **Subscriber requirements are voluminous and increasing**
  – Joint Requirements
  – Service Unique Requirements
  – System Developer Reqs (i.e. APIs)
  – Security Requirements

*Customer Satisfaction has the potential to decline rapidly*
Secondary Issues

- Maintaining Interoperability
- Inserting New Technology
- Maintaining Backwards Compatibility
- Enforcing mandates
- Managing multiple baselines
  - Fielded, production, development
- Maintaining Single Source Baseline
- Achieving architectural compliance
- Contracting (Moving $$$)
Dynamic at work

Limited Funding + Increasing Program Requirements = Decreasing Customer Satisfaction

Result is loss of interoperability
Summary

• Use of application frameworks only proven way of providing interoperability in an efficient manner
  – DoD has received tremendous leverage from the COE investment, will also from use of JMPS

• Frameworks need continued emphasis to meet evolving requirements and to ensure original investment will be protected
  – Otherwise, PORs will provide their own solutions, which are not designed to be interoperable
Recommendations

• Establish frameworks as programs of record and manage at the appropriate ACAT level
  – NCES will have own line in 2005
  – But also need POR identification for current frameworks which will be maintained for a number of years

• Must evolve these frameworks so that they can keep up with emerging requirements to support service customers