Defense Intelligence Information Enterprise (DI2E) & Framework

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This Brief is UNCLASSIFIED
“Our national debt is our biggest national security threat.”
Admiral Mike Mullen, Chairman of the Joint Chiefs of Staff [23 Jun 10]
Federal Budget Deficit

Budget Control Act of 2011 Reduces Deficit
Budget Control Act of 2011

Potential DoD 10 Year Budget Reduction (2013-2023)

- Baseline POMs submitted 29 August
- ALT POMs Submitted 16 September
- ALT POMs “Bogies” Started at Appropriately 10%

$489 Billion

Debt Reduction

$ Billions

1200
1100
1000
900
800
700
600
500
400
300
200
100
0
Budget Control Act of 2011

Potential DoD 10 Year Budget Reduction

$489 Billion

Debt Reduction

$1 Trillion

600

Debt Reduction + Sequester

“doomsday mechanism”
Leon E. Panetta
SECDEF
August 4, 2011
The Challenge

Centralized
“Single/Mandated”
- JWICS
- CIP
- JSIPS

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De-Centralized
“Distributed”
- DCGS (Past)
- GCCS

Converged
“Merged”
- DIB
- IPv6
- NMCI / NextGen

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Federated
“Partnership”
- DCGS FoS (Today)
- JC2

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Federated Approach…
Convergence When / Where It Makes Sense
DI2E Framework

Framework

Enables/Federates

Architectures

Capabilities
A Personal Example
What AF thinks of DI2E?

**Framework**

**Federation Manual**

DI2E Framework defines how we interoperate by providing:
- Standards
- Specifications
- Reference Implementation
- Policy
- Doctrine
- Processes

Creates touch points within our architecture that allow us to federate across the DI2E Enterprise.

**Architecture**

**Hybrid Data Center Cloud**

Network architecture is the design of a communications network. It’s physical components, functional organization, and operating principles and procedures are defined by AF ISR capability requirements.

- Robust WAN Network
- Data Storage and Dissemination Centers (ECH and WCH)
- Virtualized Imagery Processing
- Standardized SW/HW Baseline (10B)
  - FVEYs
  - Enterprise Service Bus

**AF DCGS**

**Capability**

**Information Superiority**

Information Superiority is one of six AF Distinctive Capabilities specified by Air Force Doctrine (AFDD1).

- Execute PCPAD functions on myriad of air and space platforms and sensors
- Provide global ISR products & services
  - Positive ID, Precision Geo-location, I&W, Target Development, Treaty Monitoring, Time Sensitive Targeting, Persistent Surveillance, Pattern of Life, etc.
- Support National Agencies, CSAs, COCOMs, JTF and below, and Coalition Partners

Integrity - Service - Excellence
What’s the NRO Doing?

Framework

• DI2E Framework $41M

ROMO

Service Oriented Architectures

• DCGS-IC $XXM
• CENTCOM DI2E-F QRC $15M
• PACOM DI2E-F QRC $12.5M

Capabilities
“Rapid Operational Multi-INT Omnibus”

IDIQ Contract
- Task Order 1
- Task Order 2
- Task Order 3
- Task Order n

DI2E-F is a single Task Order

Task 1: Document/Develop and Maintain/Update DI2E Reference Implementation

Task 2: Support Compliance Testing with the DI2E Framework and Standards

Task 3: Provide a DI2E Store Front
Task 1: Document/Develop and Maintain/Update DI2E Reference Implementation

• Using approved common core services, integrate and share a common DI2E reference implementation
• Keep the reference implementation up to date as standards, specs and services are changed or added
  ✦ Provide appropriate documentation to support service development and framework implementation by any potential developer
  ✦ Deliver and maintain physical implementations for compliance testing
Task 2: Support Compliance Testing with the DI2E Framework and Standards

- Support Test and Certification of services for compliance with published and approved DI2E service standards and specifications
- Verify that services successfully integrate within the approved reference implementation
Task 3: Provide a DI2E Store Front

- Establish DI2E storefront points of presence across network domains
- Deliver web-based environment where consumers can search and retrieve Widgets, Applications, Core Services, Service Components & Source Code, Profiles, Standards & Provider info
- Provide support tools and components to register services where developers can submit for DI2E-F Test & Certification compliance
- Develop, manage and support multiple software sharing business models (i.e. GOSS, fee for use, unlimited rights)
DI2E-F Key Events

DI2E-F Notional Schedule

• DRAFT IDIQ RFP released July 2011
• FINAL RFP release October 2011
• Task Order release expected January 2012
• Framework IOC (projected date: 2nd quarter FY - 13)
• IOC is:
  • Physical Instantiation of the Framework Reference Implementation
  • Documentation / Software Development Kit (SDK)
  • Storefront available with DI2E core services
  • Conformance testing for enterprise services [on-going]
Key Take Aways

- DI2E is Federated & will Converge Where Appropriate
- NRO has Many “Hats”… One is DI2E-F
  *(Let’s not Confuse Them)*
- DI2E Framework
  - FINAL RFP release October 2011
  - Task Order release expected January 2012
  - Framework IOC (Projected Date: 2nd quarter FY - 13)
- Current Budget Discussions could Change our Future DI2E Implementation Strategy
The DI2E Process

Governance: DI2E Council

IC CIO

DoD CIO

Policy

Framework

New Requirement

Defense Intelligence Enterprise

- Standards
- Specifications
- Reference Implementation
- Processes
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Questions