DIA’s IC ITE Adoption Story

Gus Taveras DIA CTO
UNBOXING THE IC ITE ECOSYSTEM

IC ITE Commodity
- DEPLOYMENT PLANS
- SLA
- SERVICE CATALOG
- SERVICE TRAINING
- INTERAGENCY AGREEMENTS
- SCHEDULES
Agency CIO Commodity
(How the CIO leverages IC services and makes up for mission unique needs)
- TRANSITION PLAN
- SLA
- ADOPTION RDMAP
- TRANSITION SCHED
- RISK MANAGEMENT

IC ITE Commodity
- DEPLOYMENT
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  - SLA
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- INTERAGENCY AGREEMENTS
- SCHEDULES

The IC gains economies of scales by identifying investments used by a large percentage of the agencies and make it a IC ITE commodity offering.
Agency CIOs gain economies of scale by identifying investments used by a large percentage of the workforce and make it a DIA CIO commodity offering

**End User Capability**
(Users onboard via 4 options for application migration)
- APP MIGRATION PLAN
- SLA BY CAPABILITY OWNER

**Agency CIO Commodity**
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- RISK MANAGEMENT

**IC ITE Commodity**
(All Services Provided)
- DEPLOYMENT PLANS
- SLA
- SERVICE CATALOG
- SERVICE TRAINING
- INTERAGENCY AGREEMENTS
- SCHEDULES

Gain economies of scales by identifying investments used by a large percentage of the workforce and make it a CIO commodity capability
MATURATION OF IC ITE

“Do In Common, What Is Commonly Done”
DEVOPS: Lab76

Lab76 will provide a one stop shop for links to demo sites, dev apps and a developer portal for key documents to start development.

- GitLab is exposed for source control
- RedMine is exposed for task management
- Jenkins is hooked into GitLab for automated deployments
- Single sign-on for registration for access to all apps
- Training videos for using dev apps and configuration
- Access to EzBake API for dev starter kit
DoDIIS App Engine

Registration Overview

Applications must register to:
- Get an Application Security ID
- Register Data You're Listening For
- Request Application Authorizations
- Register Broadcast Topics for Data Feeds
- Register Broadcast Topics for Parsers
- Register Data Type for Visualization

As long as all of your services, feeds, and websites can request the same level of authorizations, you'll only need to register once for everything. If you have some services that are meant to be internal to your application, and other services that are meant to be shared for use by other applications, you should register once for all of your services, and a separate registration for EACH external service.

Basic Information

- Application Name
  This name is what will go in your build packs and what will go in your app/appservices.properties file
- Admin Users
  Lab76 LDAP User names or DIAS DN
  These are the people that will be allowed to update this application later
- Point of Contact Email
  This should be the primary contact person for any questions regarding this registration request
- Application Authorizations
  Add Authorizations

Add a Feed

Is your application ingesting or generating new data?

Yes  No
**WHAT IS DAE?**

**DAE ENABLES:**
- Ease of On-boarding to IC ITE infrastructure
  - Configure services, data sets, security, etc.
  - Provision Compute & Storage
- Ensure conformance to standards, without limiting innovation
- Efficiently leverage DIA Platform investments
- Governance to identify commodity amongst disparate solutions

**INVESTMENTS SHAPED THRU GOVERNANCE**

Via CSB As Agency:
- Ensure conformance with IC ITE
- Manage the agency IT Dollars (Mission & Commodity)
- Define as an Agency Investments that answer strategy
- Clean up current DIA Capability Portfolio

**IC ITE Ecosystem**
- Security Coordination Ctr
  - IAAS
  - DTE
  - AML
  - ADV (SVCS)
  - EMT
  - PAAS
  - DAE
  - AGENCY FRAMEWORK
  - IAAS ABSTRACTION LAYER
- IAAS
- IAA
- COMPUTE
- STORAGE
- NRE

**DAE PLATFORM INVESTMENTS**

**#1 RULE: ADOPT & INFLUENCE BEFORE YOU BUY & CREATE**

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### DIA Capability Ingredients

**Application Functions**

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**Link Analysis**

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**Data Entry**

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**Task Management**

| X | X | X | X | X | X | X | X | X | X |

**Search**

| X | X | X | X | X | X | X | X | X | X |

**Alerting**

| X | X | X | X | X | X | X | X | X | X |

**Charting**

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**Presentation**

| OWF 7 | X | X | X | X | X | X | X | X | X |

**Platform**

| X | X | X | X | X | X | X | X | X | X |

**Operating Systems**

| Windows 2008 R2 | X | X | X | X | X | X | X | X | X |

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**Economies of Scale**

**For Demonstration Purposes Only**

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Refactoring/Revise (DAE): PaaS

DIA DAE Ingredients
- Software
  - Sw1xxx
  - Sw2xxx
  - Sw3xxx
- Services
  - Serv1
  - Serv2
  - Serv3
- Database
  - DB1
  - DB2
  - DB3

Common API

Rebuild: PaaS/iaaS

Web App2
- Software
  - Sw1xxx
  - Sw2xxx
- Services
  - Serv1
  - Serv2
- Database
  - DB1

App3

Re-hosting: IaaS

Web App3
- Software
  - Sw1xxx
  - Sw2xxx
- Services
  - Serv1
  - Serv2
- Database
  - DB1

Web App5
- Software
  - Sw1xxx
  - Sw2xxx
- Services
  - Serv1
  - Serv2
- Database
  - DB1

Web App8
- Software
  - Sw1xxx
  - Sw2xxx
- Services
  - Serv1
  - Serv2
- Database
  - DB1

Web App9
- Software
  - Sw1xxx
  - Sw2xxx
- Services
  - Serv1
  - Serv2
- Database
  - DB1

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ONBOARDING CAPABILITY TO IC ITE

Today DIAS
Authentication, Authorization & Auditing (IAA)

GovCLD IaaS
C2S IaaS
DoDIIS
DTE Utility CLD

SAAS
PAAS
IAAS

Infrastructure Abstraction Layer

Joint Store Front
ABR
GMAE
GovCLD
C2S

EMT: Service Catalog
Desk side Support
Password Repair

IC ITE Compliant Browser
Desktop Environment (DTE)

AML

A
REVISE / REFACTOR (PaaS)

B
REBUILD (PaaS/IaaS)

C
REHOST (IaaS)

A
ONBOARD VIA THE DODIIS APP ENGINE

B

C

RETAI N
(Legacy Infrastructure)

RETIRE

REVISE / REFACTOR (PaaS)

REBUILD (PaaS/IaaS)

REHOST (IaaS)

RETAI N
(Legacy Infrastructure)

RETIRE

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The Data Layer provides DIA's portfolio of enterprise data to consumers across the Intelligence Community.

The value of information contained in the standardized ingestion is:
- content normalization
- data enrichment such as gazeteering and entity extraction.

In addition to data ingestion, standardization, discovery and retrieval, the Data Layer:
- Acts as a steward for enterprise data and serves as a policy enforcement point.
- Add significant value to DIA's information holdings.
- Allows content owners to recall or revise information shared through the data layer.
Agency unique capabilities/applications requiring more involved (CRUD) create, read, update and delete operations, to enhance the viewing, searching and changing of information.

May still require to store data in DoDIIS Infrastructure, because:
- Of capacity challenges
- Data titles and authority’s

Storage Component- Place to put data objects with a unique id for later retrieval - safely stored in multiple places with high availability
- Similar but Different: IC-GovCloud (PWV) and C2S (AWS S3)
- Security Model differs: Smart Data vs. “Account Owner” (resp.)
- i.e. Anyone with the right attributes vs. only the owning “account”
GOVERNANCE PROCESS

Consolidation

Rationalization By Discipline

Rationalization As Agency

Prioritization

Normalization & Conformance

1. Consolidation
2. Rationalization By Discipline
3. Rationalization As Agency
4. Prioritization
5. Normalization & Conformance

CIO CREATES AUTHORITY LIST

FUNCTIONALS RATIONALIZE APPLICATIONS WITHIN DIRECTORATES

CSBWG

CSB PROVIDE BUSINESS CASES TO BE REVIEWED BY ASIB. AT CSB THEY RATIONALIZE AND PRIORITIZE CAPABILITY FOR TRANSITION TO IC ITE FRAMEWORK.

ASIB

CIO CREATES FISHBONE CHART CAPTURING THE CONTRACTS END OF POP TO INFLUENCE CSB APP DECISIONS

CSB

ASIB

EADIS

Ensures user requirements are understood during review

EADIS assist functional with the business case against service catalog

ANLYZE CURRENT SOFTWARE BUILD OF THE APPLICATION AND CATEGORIZE RISK/DIFFICULTY; DELIVER DESIGN DOCUMENT AND COST

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GOVERNANCE PROCESS

Validation

Development
Integration
Sustainment

Migration

Adoption

CSB validates capability transition cost and transition process begins.

EADIS begins transition to the platform with developer
- REF IMPLEMENTATION
- COST MODEL
- BUSINESS MODEL

EADIS MISSION APP FOCUSED

EADIS

LAB76

FRAMEWORK FOCUSED

User

AML
INNOVATION GATEWAY

Mission User

IC ITE Ecosystem

GATEWAY

Solutions Built to Standard

Refactor
Rebuild
Rehost

B

C

D

A

CSB

E

DoDIIS

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QUESTIONS

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