Headquarters U.S. Air Force

Integrity - Service - Excellence

Financial Improvement and Audit Readiness (FIAR)
&
Software (SW) and Information Technology (IT) Asset Management (ITAM)

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SAF/CIO A6
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Overview

- Provide update on FIAR IUS audit remediation effort
- Connect FIAR requirements to ITAM framework
- As-Is ITAM Problem Statement
- Why is it time to upgrade to ITAM 2.0?
- How do we get there, way ahead?
- How can you help as us as SMEs?

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IUS-FIAR Background

- Background
  - January 2018: SAF/CIO A6, SAF-FM, SAF-AQX/C & PEO-BES working together to bring USAF into an audit-ready state to meet audit requirements IAW NDAA18, 5000.76 & FIAR
- Status of Applicable Tasks
  - Define a procurement process to account for developed-IUS ✓
  - Define an accountability process to record developed-IUS in DPAS ✓
  - Finalize 1st set of documents
    - Procurement Guidance (SAF-AQC) ✓
    - AFMAN 17-1203 GM, SOP & DPAS Reference Guide for IUS (A6) ✓
    - AFI 63-101 rewrite (SAF-AQX)
- FY19 Efforts
  - FY19 IOC is planned to start accounting NEW developed-IUS (applications)
    - Processes & polices will be under continuous improvement
  - DPAS to replace AFEMS-AIM in Q3FY19
  - ITAM 2.0 to start accounting for COTS-IUS (Is this part of FY19 efforts)

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ITAM Problem Statement

- Policy
  - ITAM policy is outdated and manual intensive; makes accurate accounting difficult
  - Lack of coherent and standardized IT life-cycle policy by all functional business areas
- Process
  - Process does not meet IUS accountability requirements
  - Asset management is performed at base level; lacking enterprise level visibility
  - Manual process is challenging to account intangible IT assets placed into networks
  - Lack of coherent and standardized IT life-cycle process by all functional business areas
- Systems/Tools
  - No automation tool available to help IT asset managers to effectively account and manage SW licenses
  - Existing tools cannot be effectively leveraged due to lack of standard policy and process

THIS IS A PURPLE PROBLEM

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Why Do We Need ITAM 2.0?

- Enable Informed Decision Making
  - Provide metrics to defend investments & forecast POM
  - Investment prioritization to support roadmaps & campaign plans
  - Help justify prioritization in year of execution
  - Correlation of investment to capability
  - Provide Return on Investment (ROI) metrics
- Opportunities for IT Efficiencies
  - Identify under utilization of assets
  - Reuse assets to avoid new purchases if not needed
- Avoid Legal Liabilities
  - Under-purchase/over-usage have legal consequences
- To Provide Whitespace to Airmen
  - Elimination of manual work
  - Opportunities for increased mission readiness

- Consequences of NOT Changing
  - Continue with manual labor, inaccurate data, time-consuming data-calls
  - Uninformed IT decision making
  - Increase non-compliance & legal risk
  - Missing cost saving opportunities
  - Not able to accurately identify modernization opportunities

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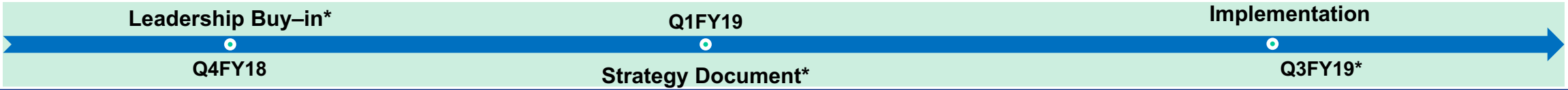
ITAM 2.0 Way Ahead

- Establish an USAF Vision
  - Communicate the problem; do we understand the problem and all of its variables? ✓
  - Leadership buy-in; why we need to resolve this problem? ✓
- Strategy
  - Identify key stakeholders; roles & responsibilities (on-going)
  - Develop a strategy to ?????
    - By leverage lessons learned from Army &
    - Establish implementation plan
- Implement
  - Process changes: this is mainly a process problem--processes produce the data
  - Material solution: tools exist, how do we leverage what we have, what tools do we need?



*Timeline is notional

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Upcoming Related SAF/CIO A6 Topics

Topic	Room	Time	Day
IT Portfolio / Roadmap Updates (Gov only)	River Rm 8	0910-0955	Wed
Mobility	River Rm 8	1010-1055	Wed

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Questions

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E-MAIL IF YOU ARE INTERESTED IN CONTRIBUTIN TO THE SOLUTION (GOV/MIL/CTR)

Back Up Slides

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What is IUS?

IUS is:

- SW that is acquired or developed to meet USAF's internal or operation needs
- Can be a standalone application or combined SW components of an IT system that can consist of multiple applications, modules or other software components integrated and used to fulfill USAF's internal operation needs
- Can be purchased as COTS (a.k.a. COTS-IUS)
- Can be modified, internally or contractor developed (a.k.a. Developed-IUS). e.g. financial, logistics, HR systems, networks, portals, webpages
- IUS that is embedded into weapon systems is excluded
- Financially, it is separated into two categories: CAPITAL & NON-CAPITAL
  - Capitalization Criteria: Useful life of 2 or more year AND $250K per project cost. Almost all capital IUS are developed SW
- We do not account what we do not own; SaaS, subscriptions, external cloud services are not IUS

Examples of IUS

- COTS: MS Office, Adobe Acrobat, MS Visio, ArcGIS, Win SQL Server, Skype, MS Project, Visual Studio
- Cloud services (internal): USAF-owned data centers
- ERPs: DEAMS,
- dBase system: Oracle
- Subscription COTS Licenses: O365
- Portals: USAF Portal

Examples of NON-IUS

- Weapons Systems
- Freeware
- Firmware
- SW in Simulation Equipment
- Operating System
- SaaS
- Network (if it does not have COTS)
- SW in Audio Visual Equipment: VTC, VOIP

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ITAM Problem Statement

Air Force does not have capabilities to efficiently and effectively manage its software and hardware investments

- Existing processes are constrained by lack of policy, enforcement, and data
- Inaccurate records of SW licensing and HW
- Disparately, unknown networks, no standard management
- Multiple procurement systems
- Non-standard data collection
- Sales leakages

- Burden to commands for data calls
- Cannot negotiate best terms for the Enterprise
- Accurately support PPBE
- Optimize utilization of resources
- Quickly and accurately respond to Audits
- Have near real time view of software licensing position
- Inability to adequately protect the Enterprise

ASSUMPTION
"I need my SW, let's buy it!"

REALITY
"we have redundant licenses not used/under used"

CONSEQUENCES
"over purchase, under utilization, inaccurate IT programming, costly data-calls, manual license management

OV-1 (Art of the Possible) ITAM 2.0

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Entitlement/Ownership Created

- Purchase Orders
- Contracts
- Invoices
- Financial Transactions
- IT Services

PURCHASE DATA

Asset Deployed

ORACLE, vmware, redhat. LINUX, CITRIX, Adobe, bmc, IBM, ESRI, solarwinds, Symantec, cisco, ca technologies

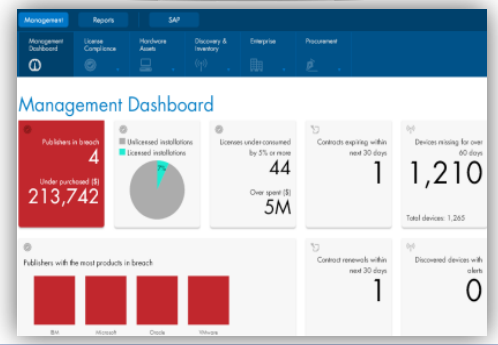
Assets Monitored/Managed

- SCCM
- Solar Winds
- Tanium
- HBSS
- User Data: GAL, Active Dir.

NETOPS DATA

Supporting Data

- Discover
- Normalize
- Optimize



- *What do I have?*
- *What is my utilization ?*
- *What do I need next 3 years?*
- *Do I have violate EULAs?*
- *Am I FIAR compliant?*