Enterprise Architecture Update
CIO Council March 2017

March 9, 2017 2:30 PM
Smith Center room 561
Topics

• Visiting Committee Preparation
• EA website Updates
• EA Community of Practice Proposal
• Additional Updates:
  – IT Academy UX Course
  – Course API Development for SIS and Schools
Visiting Committee Preparation

• Major Program Milestone: Visiting Committee Meetings May 1-2
  ○ Expectation: Demonstrated progress implementing an Enterprise Architecture
Framework Elements

Layers

Security

- User Experience
- Applications and Software Components
- Interoperation
- Data
- Middleware
- Infrastructure and Iaas
- Networking

General Principles & Standards

- User Experience Principles
- Standards
- Resources
- Security Principles
- Standards
- Resources
Framework Elements

Layer: Interoperation

Principle: APIs are the preferred method of moving information between systems.

Standard: Publish APIs to a common repository for wider use

Library of Resources, Patterns, and Reference Artifacts:
- ETAB Publication: Guidelines for API Development
- DMS program service: MuleSoft
- Code for existing APIs shared in common repo
- Checklist for vendor-managed APIs for COTS and SaaS solutions
- ...
Visiting Committee Preparation

Total Scope of Effort:

• Draft **Principles** for Each Layer  
  (Total: 8 x 3-5)

• Discover, Gap Analyze, Draft and Organize **Standards** for Each Layer  
  (Total: 8 x ??)

• Discover, Gap Analyze, Draft and Organize **Resources** for Each Layer  
  (Total: 8 x ∞)

• Build, Maintain and Grow a library for all of these **Artifacts**
Visiting Committee Preparation

Total Scope of Effort:

• Draft Principles for Each Layer  
  (Total: 8 x 3-5)

• Discover, Gap Analyze, Draft and Organize Standards for Each Layer  
  (Total: 8 x ??)

• Discover, Gap Analyze, Draft and Organize Resources for Each Layer  
  (Total: 8 x ∞)

• Build, Maintain and Grow a library for all of these Artifacts
Visiting Committee Preparation

• Major Program Milestone: Visiting Committee Meetings May 1-2
  ○ Expectation: Demonstrated progress implementing an Enterprise Architecture

• Key Deliverable: Publish Vetted Principles for each Architectural Layer
  ○ Prioritize aspirational goals
  ○ Reinforce existing best practices
Visiting Committee Preparation

• Key Deliverable: Publish vetted principles for each architectural layer

• Milestone 1: Publishable draft of principles by March 24
  ○ 4 of 8 complete
  ○ Draft principles will be published on EA website

• Milestone 2: Validate principles with CIOs/Schools by April 7
  ○ CIO Tour to solicit feedback on approach and draft content
  ○ Identify school stakeholders to participate in further feedback cycles

• Milestone 3: CIO-Directed School putreach by April 21
  ○ Obtain feedback from implementation team-level stakeholders

• Milestone 4: Present vetted principles to Visiting Committee: May 1
  ○ Website revisions
EA Website Updates

Enterprise Architecture
Developing a Unified Technology Vision for Harvard

Home   About EA   The Architecture   Contact

THE ARCHITECTURE
User Experience
Applications and Software Components
Interoperation
Data
Middleware
Infrastructure and IaaS
Networking
Security

HOME / THE ARCHITECTURE /

Infrastructure and IaaS

Please note that the information on this page is currently in draft form.

The Infrastructure layer encompasses hardware and virtualized platforms that operate applications, services, and their components.

Servers, associated storage components, operating systems, and other computing devices are the common examples of infrastructure, more recently joined by ‘cloud’-based infrastructures of Platform-as-a-Service and Infrastructure-as-a-Service.

INFRASTRUCTURE PRINCIPLES

→ Provide infrastructure services that empower Harvard’s IT evolution (Functionality)
→ Deliver infrastructure that’s needed, well (Quality)
→ Reuse standard capabilities and automated processes whenever possible (Standardization and Efficiency)
→ Empower customers to actively manage performance, cost, and risk (Flexibility)
→ Ensure infrastructure services are secure, resilient, and support Enterprise Architecture standards (Adding Value)
Enterprise Architecture Community of Practice Proposal

- **Goal: Connect Communities**
  - What we need more than new communities are better connections between the existing ones

- Leverage existing CoPs and Workgroups aligned to layers of the EA:
Enterprise Architecture Community of Practice Proposal

• EA’s role is to:
  ○ Participate in each of these groups
  ○ Sponsor those that don’t exist
  ○ Bridge them to each other
  ○ Connect their concerns to the ETAB and other EA practices
Additional EA Updates

• UX Level 1 IT Academy Course Launched
  ○ First offering of the class filled all seats in less than 24 hours
  ○ Post-session survey ratings above 4.0 for all measures
  ○ “The workshop format provided me with skills that we can immediately apply to my job.”

• Commitment to Development of an API for Schools and SIS
  ○ Agreement between HBS, HLS and SIS to use a common API for sending Course/Class records to SIS for use in University catalog this fall
  ○ SIS will be ready to accept test data for API by early April
  ○ Solution aligns with Enterprise Architecture principles for data and interoperation
Questions or comments?
Thank you!