



Office of Technology Strategies Mobile Architecture Design Pattern Public Forum December 8, 2014

Executive Summary

Purpose: The Office of Technology Strategies' (TS) Design Patterns Team has produced a draft design pattern for Mobile Architecture enterprise design pattern for the Department of Veterans Affairs (VA). The purpose of this meeting was to review the current draft and solicit a last round of input on the before finalizing the design pattern and submitting it for signature and formalization.

Overview: Representatives from various stakeholder offices across OIT and VA, as well as representatives from vendors whose input was solicited, provided feedback on the draft design pattern. The draft of the design pattern was presented and a Q&A related to the specifics covered within the design pattern followed.

The presentation lasted roughly 1 hour and 30 minutes, including Q&A.

Key Discussion Points:

Justin Ronkowitz, a contractor supporting TS led the presentation.

Overview of Presentation and Q&A:

- Design Pattern definition and intended use
 - Design patterns are capability guidance documents which are reusable in standard ways
 - Design patterns are not project-specific solutions architecture
 - Design patterns are designed to be used by any integrated project teams developing, updating, or maintaining VA IT systems
- Mobile Design Pattern break-down
 - Key Components
 - To-be vs. As-is state
 - Mobile Device Management (MDM)
 - Mobile Security
 - Mobile Application Management (MAM)
 - Availability, and Maintenance and support
- Identified issues
 - Existence of domain-specific structures and process
 - Increasing cost and complexity of mobile requirements across the enterprise
 - Insufficient support for mobile development and maintenance
 - Insufficient standards and policies for mobile
 - Lack of authoritative data and data sources

- In-scope vs. Out-of-scope
 - Focuses on vendor-agnostic frameworks
 - Provides vision to focus on reusable and scalable capabilities
 - Does not provide detailed technical solutions

- Key Components
 - Mobile Application Environment (MAE)
 - VA Mobile Framework (VAMF)
 - How will VAMF be extended across the enterprise network to have expanded capabilities to meet the changing needs of the mobile environment and touch all lines of business (LOBs)?

- To-Be Architecture
 - Updated diagram to show a general front-to-back environment without levels of technical details which can be dependent upon solutions architecture
 - The new diagram only specifies the relationship and aspects between the user/device layer, application layer and the Enterprise Messaging Infrastructure (EMI)
 - MAM will be included in the cloud layer between the user and application in an overarching Enterprise Mobility Management (EMM) designated box

- MDM
 - Provide capability for both Government-furnished equipment (GFE) and bring your own device (BYOD) across the enterprise
 - External network with largest throughput possible
 - Will leverage mobile monitoring tools

- Mobile Security
 - Shift towards a focus for securing single sign-on (SSO) authentication
 - Must be compliant with existing security standards and guidelines
 - VA 6500 Handbook
 - Latest version requires that all databases be encrypted
 - Federal Information Processing Standards (FIPS)
 - National Institute of Standards and Technology (NIST) special publications
 - Necessary levels of the certification and authentication needs for mobile must be defined and incorporated into the overall mobile architecture

- MAM
 - Supports both build and buy processes
 - Must be scalable
 - Allows for all internal and external users to leverage shared services and applications
 - The deployment environment supports both internally and externally released applications
 - All applications are tested and reviewed through a standardized process

- Certification and Governance
 - All applications developed will be subject to a certification process, including all databases to ensure compliance with the latest version of VA 6500 handbook (Revision

1, dated 2012), which provides security policy and allows issuances for authority to operate (ATO)

- OIT is responsible for guiding application developers to leverage ESS, as well as to ensure certification prior to release
- Availability
 - VA currently uses cloud Infrastructure-as-a-Service (IaaS)
 - Cloud availability within VA will be driven by SLAs between OIT and its customers
 - Mobile users will continue to share and generate data between with standardized, authoritative sources through shared services

Next Steps:

- The TS Design Patterns Team will consider the input they received during this meeting in the continued development of the final draft of the Mobile Architecture design pattern.
 - Certification process should specifically call out ATO process
 - Consideration of future proofing – planning for a flexible architecture that takes into account changes in technology and policy down the road
 - Ensure mapping of use cases to capabilities (rights management, etc.) – MARA
 - Need to address configuration management/DevOps – do the current policies address mobile concerns?
 - Reword app catalog section to address issues with re-licensing, i.e. address existence of need to work with the vendors to containerize applications from commercial stores
 - Need to address monitoring at an enterprise level – Oracle to provide additional vendor agnostic background information
- Future increments of Mobile design patterns will continue to be prioritized and developed by TS going forward.

Appendices:

- A. Participant List
- B. Mobile Presentations Deck

Appendix A: Attendee List

Attendee	Organization
LaTanya Anderson	VA - SDE
Marcus Baggs	VA - MARA
Bill Barnes	VA
Dirk Barrineau	VA
Dave Beeler	IBM
Nicholas Bogden	VA - TS
Molly Brais	BlackBerry
Joseph Brooks	VA - TS
Chris Collins-Wooley	
Keith Cox	VA
Wes Cronkite	BAH
Ronnie Daldos	MITRE
Mike Dance	BAH
John Davis	VA
Erich Fronck	VA – Region 4 ISO
Scott Gaus	IBM
Adrian Gordon	BAH
Walter Grant	VA
Douglas Hilgren	BlackBerry
Jose Huertas	VA
Brian James	BAH
Bob Kellogg	Oracle
Matt Kreuch	Good Technology
Tony Leonard	VA
David Lin	MITRE
George Ludgate	CACI
Jacqueline Meadows-Stokes	VA - TS
Paulena Meyer	BAH
Gregory Mullins	VA
David Murphy	NS/FG ISO
Eric Olson	MITRE
Stephany Perez-Cohen	BAH
Pamela Privette	VA - ASD
Justin Ronkowitz	BAH
Shawn Quinlan	

Terry Shea	IBM
Ahmad Saoud	
Ritesh Saxena	IBM
Matthew Sekura	VA
Michael Shinozaki	Microsoft
Jeff Tannenbaum	IBM
Perry Vessels	Engility
Francis Waldron	VA