

Douglas A. Ducey  
Governor



Kevin Donnellan  
Acting Director

ARIZONA DEPARTMENT OF ADMINISTRATION

OFFICE OF THE DIRECTOR

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May 18, 2015

Mr. Kevin Donnellan, Acting Director  
Arizona Department of Administration  
100 N. 15<sup>th</sup> Ave.  
Phoenix, AZ 85007

Dear Kevin:

In response to the Project Investment Justification (PIJ) for the “**Arizona Enterprise Services Platform**” project, my staff has reviewed your proposal to develop a web-based central development and deployment platform for State agency applications and services.

The PIJ implies funding is available from the appropriated Fiscal Year (FY) 2016 Automation Projects Fund (APF) in the amount of \$2,625.0 thousand, with additional funding to be requested from the appropriated Web Portal Fund in the amount of \$1,300.0 thousand, for a total estimated five-year life cycle cost for the project of \$3,925.0 thousand.

This is the Arizona Strategic Enterprise Technology Office's **Approval with Conditions** of the technology project as follows:

1. As a result of further planning and deployment efforts, should the final costs exceed the estimated costs by 10% or more, or should there be significant changes to the proposed technology, scope of work or implementation schedule, ADOA must amend the PIJ to reflect the changes and submit it to ADOA-ASET for review and approval prior to further expenditure of funds.

You may proceed to secure additional approvals as required from the Joint Legislative Budget Committee, the Office of Strategic Planning and Budgeting, and the State Procurement Office.

Best Wishes,

A handwritten signature in blue ink, appearing to read "Michael J. Lettman".

Michael J. Lettman  
Acting State CIO and Chief Information Security Officer  
Arizona Strategic Enterprise Technology (ASET) Office

Mr. Kevin Donnellan

May 18, 2015

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cc: Michael Lettman, ADOA-ASET  
J.R. Sloan, ADOA-ASET  
Darrell Davis, ADOA-ASET  
David Nale, ADOA-ASET  
Rico Cruz, ADOA-ASET  
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ASET# AD15009

<i>Agency Name &amp; Address</i>	<i>Contact Information</i>
Arizona Department of Administration 100 N. 15 <sup>th</sup> Ave. Phoenix, AZ 85007	David Nale 602-542-2411 david.nale@azdoa.gov
<i>Project and Investment Justification Name</i>	<i>Date Submitted</i>
Arizona Enterprise Services Platform	May 15, 2015

### **Project Overview**

#### **Problem Description**

Currently, State agencies, employees, businesses, and citizens face challenges when trying to access, share or utilize State data and services. Challenges include:

- Business and technical inefficiencies due to the lack of a centralized, secure technology platform.
- Lack of reusability due to IT silos, resulting in agencies re-inventing the wheel to solve similar problems.
- The lack of a centralized and secure identity and profile management solution.
- The inability of State agencies to share and maintain information regarding their services in a centralized repository.
- Lack of ability for most State agencies to generate and grow revenue from data and services.

These challenges create inefficiencies that result in lost opportunities for a collaborative approach to developing enterprise level solutions within and between ADOA-ASET and other State agencies.

#### **Solution**

With this project, ADOA-ASET proposes to develop the Arizona Enterprise Services Platform (AESP). This will be a web-based, multi-tenant, and auto-scaling platform that will provide State agencies a central development and deployment location for applications and services. This platform will leverage various existing technologies and services, and provide flexibility for future integration, while creating the opportunity for new revenue streams. The platform will be built using Open Source Technologies and Open Standards. This strategy will provide the necessary scalability for the deployment to meet the enterprise needs of the State, without the expense of proprietary licensing costs. It will also accelerate the adoption of Open Source Technologies within State agencies.

New service enhancements will be incorporated into the foundation of the platform, including additional enterprise content management and workflow capabilities, and an enhanced security offering using multi-factor authentication (MFA) technology. The platform will also support the creation of additional services in a modular, reusable manner that will act as building blocks for future applications.

### **Major Deliverables and Outcomes**

Some of the basic components of the AESP architecture have already been developed, utilizing funds allocated to other approved technology projects. Those include an existing identity management function and Application Programming Interface (API) store, which are available on the existing platform that resides in the Amazon Web Services (AWS) cloud environment. ADOA-ASET proposes to develop the following platform components as part of this project:

- Quick Start Program (QSP) Application Program Interface (API) Migration - Five APIs that were built to support early adopter applications within the WSO2 middleware platform will be migrated to the Production AESP environment.
- MultiFactor Authentication (MFA) Integration - This security mechanism will provide additional protection for digital assets and customer data.
- Apache Stratos Core High Availability Implementation - This service implementation will ensure a pre-arranged highly available level of operational performance.
- Business Process Server (BPS) - BPS will be responsible for execution of business processes and workflows.
- Business Rules Server (BRS) Development and Testing - BRS functionality will provide the capability for defining, deploying, monitoring, and maintaining business rules, and making them available to other applications.
- Business Activity Monitor (BAM) - A WSO2 framework component that will provide application analytics capabilities for the AESP platform.
- Migration of the myDEQ application (PIJ IDs EV14003/14004) onto the AESP platform.
- Oversight Automation (PIJ Application) migration (PIJ ID AD15005) onto the platform
- Single Sign-On Application migration onto the platform (PIJ TBD).

### **Benefits**

This platform will provide State agencies, employees, businesses, and citizens a means to improve accessibility and efficiency. This effort will enable the development of a secure cloud-based infrastructure and other platform services. The project will implement orchestration, automation and monitoring capabilities to increase efficiencies, reduce costs, improve security, and assist agencies with cloud migration efforts.

### **Project Management**

An ADOA Project Manager will oversee the project. Internal ADOA-ASET contractors will support both discovery and development phases. External contracted subject matter experts will provide technical support during, the discovery, development, and ongoing operational phases of the project life-cycle. Testing and roll-out will be performed by ADOA.

### **Enterprise Architecture**

Compliant

**Summary of Proposed Costs**

<i>All Figures in Thousands (\$000)</i>						
<i>Cost Description</i>	<i>2016</i>	<i>2017</i>	<i>2018</i>	<i>2019</i>	<i>2020</i>	<i>Total</i>
Development Costs	584.4	0.0	0.0	0.0	0.0	584.4
Operational Costs	2,040.6	250.0	250.0	250.0	550.0	3,340.6
Total Project Costs	2,625.0	250.0	250.0	250.0	550.0	3,925.0

**Recommendation: Approval with Conditions**

1. As a result of further planning and deployment efforts, should the final costs exceed the estimated costs by 10% or more, or should there be significant changes to the proposed technology, scope of work or implementation schedule, ADOA must amend the PIJ to reflect the changes and submit it to ADOA-ASET for review and approval prior to further expenditure of funds.