Enterprise Directory Services (Single Sign-on)					
Agency Requesting The Project:					
Administration Department					
Business Unit Requesting The Project	ct:				
ASET-SPR					
Sponsor Of the Project:					
Darrell Davis					
Sponsor Title:					
State Chief Privacy Officer					
Sponsor Phone Number:	Extension:				
602-542-5409					
Sponsor Email Address:					
Darrell.davis@azdoa.gov					

Has a Project Request been completed for this PIJ?

Υ

What is the operational issue or business need that the Agency is trying to solve?

Most State agencies use a separate directory infrastructure to authenticate their employees and users. This results in unnecessary redundancy and duplicated cost, lack of a centralized provisioning and de-provisioning of personnel, and inconsistent standards and security controls. Additionally, disparate directory systems increase security risks to the State IT systems.

How will solving this issue or addressing this need benefit the State or the Agency?

The implementation of an Enterprise Directory Services solution will significantly decrease cost by eliminating the redundancy and duplication of systems, services, and human resources required to support the current 100+ disparate directory services system within the State. It also allows for seamless provisioning and de-provisioning of resources from a single interface. It further allows for consistent standards and security controls to be applied to Statewide systems and services. Additionally, a unified Directory Services will improve IT Security.

Describe the proposed solution to this business need:

The proposed Enterprise Directory Service solution will be Microsoft Active Directory, Azure Active Directory Premium, and Azure Identity Manager, utilizing single forest / single domain with Agency resource forests, as required. This unified approach provides the opportunity to significantly decrease the total cost of operation to State.

In the future, this framework will become the core system facilitating other Enterprise/Statewide services and will allow readily available services that will provide a convenient method to integrate the IT directories of other State Agencies and Boards to the Statewide Directory.

A unified Directory Services will allow a central point to implement and manage comprehensive security and auditing process and procedures, standards and controls for Statewide IT.

Has the existing technology environment, into which the proposed solution will be implemented, been documented? Υ Indicate where that documentation can be found, or provide the information under separate cover before the meeting, otherwise describe below: The current ADOA Active Directory system will be enhanced to the new Statewide Directory Services. This system is fully documented and managed by ADOA-ASET. All documentation is stored on the ADOA shared file server, and updated regularly. Have the business requirements been gathered, along with any technology Υ requirements that have been identified? Are you submitting this as a Pre-PIJ in order to issue a Request for Proposal (RFP) to evaluate options and select a solution that meets the project requirements? N Will you be completing an assessment phase, i.e., an evaluation by a vendor, third party or your agency, of the current state, needs, and desired future state, in order to determine the cost, effort, approach (RFP or otherwise) and/or feasibility of a project before submitting the full PIJ? Ν Does the project fall into one of the following categories: - hardware technology refresh/expansion, e.g., replacement/more laptops, radios, peripherals, etc.? - software version refresh/additional licenses, e.g., MS Office 2013 replacing 2010, extra software licenses needed for additional PCs? Ν Is there any possibility that project implementation costs could reach \$1 million or more? Ν Is the proposed procurement the result of an RFP solicitation process? N Is this project referenced in your agency's Strategic IT Plan? Does your agency have a formal project methodology in place? Describe the make-up and roles/responsibilities of the project team, e.g. participants, sponsors, stakeholders, etc. below: ADOA: Strategic plan, design, project management, executive sponsorship, vendor management, and implementation Microsoft: Product and services [licensing], consulting Vendor: consulting, design, implementation

Will a PM be assigned to manage the project, regardless of whether internal or vendor		
provided?	JE	Υ
If the PM is credentialed, e.g., PMP, CPM, etc., please provide certification information by	a o l o	
in the rivins credentialed, e.g., rivir, crivi, etc., please provide certification information t	Jeic	, vv .
MBA, PMP, PMI-ACP, CSM, ITIL-SAO,		
Is a project plan available that reflects the estimated start date and end date of the		
project, and the supporting milestones for the project?	-	
	JL	Υ
Has a test/pilot phase been incorporated?	1_	
	JE	N
Have steps needed to roll-out to all impacted parties been incorporated, e.g.	1	
communications, planned outages, deployment plan?		
		Υ
NACH About and a second a second and a second a second and a second a	7	
Will the implementation require any physical infrastructure improvements, e.g., building reconstruction, major re-wiring, etc.?		
Teconomic action, major to mining, economic		N
	7	
Are there any known resource availability conflicts that could impact the project?		N
	╛┖	11
Have the identified conflicts been taken into account in the project plan?	1_	
	JL	Υ
Does your schedule have dependencies on any other projects or procurements?	7	
,		N
Will the implementation involve major end user view or functionality changes?	7	
will the implementation involve major end user view or functionality changes?	IF	N
Will the proposed solution result in a change to a public-facing application or system?	-	NI.
	╛┖	N
Is a detailed project budget reflecting all of the up-front/startup costs to implement the	7	
project available, e.g., hardware, initial software licenses, training, taxes, P&OS, etc.?	-	
	JL	Υ
Have the ongoing support costs for sustaining the proposed solution over a 5-year	7	
lifecycle, once the project is complete, been determined, e.g., ongoing vendor hosting		
costs, annual maintenance and support not acquired upfront, etc.?	-	
	J∟	Υ
Have all required funding sources for the project and ongoing support costs been	7_	
identified?	╛Ĺ	Υ
Will the funding for this project expire on a specific date, regardless of project timelines?	7	
Twin the randing for this project expire on a specific date, regardless of project lifflelines?	_	Υ
Provide the dates for the funding availability below:	4	
Estimated Start 07/01/15 Estimated Finish 06/30/16	1	

Will the funding allocated for this project include any contingency, in the event of cost over-runs or potential changes in scope?	
	N
Please indicate whether a statewide enterprise solution will be used or select the primary for not choosing an enterprise solution:	reason
The implementation will become the Statewide Solution	
Will the technology and all required services be acquired off existing State contract(s)?	Υ
Will any software be acquired through the current State value-added reseller contract?	Υ
Describe how the software was selected below:	
Because the current directory services in use is Microsoft and this was determined to be t State Standard	he
Does the project involve any technology that is new and/or unfamiliar to your agency, e.g., software tool never used before, virtualized server environment?	N
Does your agency have experience with the vendor (if known)?	Υ
Does the vendor (if known) have professional experience with similar projects?	Υ
Does the project involve any coordination across multiple vendors?	N
Does this project require multiple system interfaces, e.g., APIs, data exchange with other external application systems/agencies or other internal systems/divisions?	Υ
Have any compatibility issues been identified between the proposed solution and the existing environment, e.g., upgrade to server needed before new COTS solution can be installed?	N
Describe below the issues that were identified and how they have been/will be resolved, whether an ADOA-ASET representative should contact you:	or
Microsoft AZURE and AD Premium will provide the Federation Trust connections between ADOA (consolidated) AD and the other State Agencies' and Boards' directory services	the
Will a migration/conversion step be required, i.e., data extract, transformation and load?	Υ
Is this replacing an existing solution?	Υ

Indicate below when the solution being replaced was originally acquired?	
Disparate directory services will be consolidated into this Enterprise Directory Services sys	stem
Describe the planned disposition of the existing technology below, e.g., surplused, retired as backup, used for another purpose:	, used
existing AD systems can be decommissioned, surplused, retired, or repurposed as approp	riate.
Describe how the agency determined the quantities reflected in the PIJ, e.g., number of h P&OS, disk capacity required, etc. for the proposed solution?	ours of
Internal technical SMEs and presales engineers from Microsoft have made the recommer based on quantitative analysis	dations
Does the proposed solution and associated costs reflect any assumptions regarding projected growth, e.g., more users over time, increases in the amount of data to be stored over 5 years?	Υ
Does the proposed solution and associated costs include failover and disaster recovery contingencies?	Υ
Will the vendor need to configure the proposed solution for use by your agency?	Υ
Are the costs associated with that configuration included in the PIJ financials?	Υ
Will any application development or customization of the proposed solution be required for the agency to use the product in the current/planned technology environment, e.g., a COTS application that will require custom programming, an agency application that will be entirely custom developed?	N
Have you determined that this project is in compliance with all applicable statutes, regulations, policies, standards, and procedures, including those for network, security, platform, software/application, and/or data/information found at https://aset.az.gov/resources/psp?	Y
Are there other high risk project items not identified?	N
Please explain all unidentified high risk project items below:	
A major risk of lack of cooperation from the other State Agencies and Boards - Mitigation directive from the Governor's office to the Agencies and Boards	is a
Will the proposed solution be vendor-hosted?	Υ

Please select from the following vendor-hosted options:	
Commercial Data Center	
Describe the rationale for selecting the vendor-hosted option below:	
Vendor's solution runs on their cloud platform	
Has the agency been able to confirm the long-term viability of the vendor-hosted	
environment?	Υ
Has the agency addressed contract termination contingencies, e.g., solution ownership,	
data ownership, application portability, migration plans upon contract/support termination?	Υ
Has a Conceptual Design / Network Diagram been provided and reviewed by ASET-SPR?	
	Υ
Has the spreadsheet located at https://aset.az.gov/arizona-baseline-security-controls-excel already been completed by the vendor and approved by ASET-SPR?	
	Υ
Will the proposed solution be hosted on-premise in a state agency?	Υ
Please select from the following in-house options:	
State Data Center (SDC)	
Describe the rationale for selecting an in-house option below:	
Currently, the ADOA Active Directory is housed within the State Data Center and replicate AWS and Microsoft Azure. The proposed solution will use the same methodology to facilinew service.	
Will any data be transmitted into or out of the agency's in-house environment or the	
State Data Center?	<u>Y</u>
Will any PII, PHI, or other Protected Information as defined in the 8110 Statewide Data Classification Policy be transmitted, stored, or processed with this project?	NI NI
	l N

Summary of PIJ Financials

Total of Development Cost: \$

Total of Operational Cost: \$

Total Costs: \$ 910,790 3,323,160 4,233,950

Project Cost - Itemized

Project Co	ost - Itemized		Development					Enter Tax Rate if		
Item	Description	Category	(Implementation) or Operational (Ongoing)	Fiscal Year Spend	Qty or Hours	Unit Cost	Extended Cost	Applicable (Generally 8.3% for PHX)	Тах	Total Cost
1	[SHI Pricing Quotation #11114572] Microsoft Enterprise Mobility Suite (license bundle - includes AD Premium) - Subscription License (12 month) - 1 year - hosted - EA Subscription - Microsoft Part # AAA-10732 (per user annual cost)	License & Maint Fees	Development	1	8500	\$90	\$765,000	8.60%	\$65,790	\$830,790
2	Professional Services (Active Directory SME) to integrate and configure AD Premium, AZURE, and directory federation - 6 mo contract	Prof & Outside Services	Development	1	1000	\$80	\$80,000		\$0	\$80,000
3	Ongoing license renewal years 2-5	License & Maint Fees	Operational	FY2-5	8500	\$90	\$765,000	8.60%	\$65,790	\$3,323,160
4		[Select]	[Select]	[Select]						
5		[Select]	[Select]	[Select]						
6		[Select]	[Select]	[Select]						
7		[Select]	[Select]	[Select]						
8		[Select]	[Select]	[Select]						
9		[Select]	[Select]	[Select]						
10		[Select]	[Select]	[Select]						
11		[Select]	[Select]	[Select]						
12		[Select]	[Select]	[Select]						
13		[Select]	[Select]	[Select]						
14		[Select]	[Select]	[Select]						
15		[Select]	[Select]	[Select]						
16		[Select]	[Select]	[Select]						
17		[Select]	[Select]	[Select]					_	_
			-				-			

Total Itemization of Costs:	\$4,233,950
Total Operational Cost	\$3,323,160
Total Development Cost	\$910,790

	S	ummary of Funding Sources	
Fund Type	% of Project	\$ of Project (Available)	\$ of Project (To Be Requested)
Base Budget			
APF	100.00%	\$910,790.00	
Other Appropriated	Web Portal Fund		\$3,323,160.00
Federal			
Other Non-Appropriated			

PIJ Develo	opment & Operation	al Cost Summary					
Description	Туре	Year 1	Year 2	Year 3	Year 4	Year 5	Extended Cost
Professional & Outside Services	Development	\$80,000	\$0	\$0	\$0	\$0	\$80,000
	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Hardware	Development	\$0	\$0	\$0	\$0	\$0	\$0
Hardware	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Software	Development	\$0	\$0	\$0	\$0	\$0	\$0
Software	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Communications	Development	\$0	\$0	\$0	\$0	\$0	\$0
Communications	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Facilities	Development	\$0	\$0	\$0	\$0	\$0	\$0
racinties	Operational	\$0	\$0	\$0	\$0	\$0	\$0
Licensing &	Development	\$830,790	\$0	\$0	\$0	\$0	\$830,790
Maintenance Fees	Operational	\$0	\$830,790	\$830,790	\$830,790	\$830,790	\$3,323,160
Others	Development	\$0	\$0	\$0	\$0	\$0	\$0
Other	Operational	\$0	\$0	\$0	\$0	\$0	\$0
	Development Cost:	\$910,790	\$0	\$0	\$0	\$0	\$910,790
	Operational Cost:	\$0	\$830,790	\$830,790	\$830,790	\$830,790	\$3,323,160
	Total Cost:						\$4,233,950

Total costs available to distribute between funding sources
\$0.00

Areas of Impact

1 App	lication Systems
	Application Enhancements
	Internal Use Web Application
	Mobile Application Development
	Arizona Enterprise Solution Platform (AESP) based Application
	New Application Development
	az.gov Web Portal Application
	Other: (Please specify below)
2 Dat	abase Systems
	Data Warehouse/Mart
	Database Consolidation/Migration/Extract Transform and Load Data
	Database Products and Tools:
	Oracle
	MySQL
	DB2
	MS SQL Server
	Other: (Please specify below)
3 Soft	ware
	COTS Application Customization
	COTS Application Acquisition
	Mainframe Systems Software
	Open Source
	PC/LAN Systems Software
	Virtualization
	Other: (Please specify below)
4 Har	dware
	LAN/WAN Infrastructure
	Mainframe Infrastructure
	Storage Area Network Devices
	Public Safety Radios, Systems
	PC Purchases, Peripherals
	Tape Libraries/Silos
	Trape Libraries/31105
	UPS Devices

5 Hoste	d Solution (Cloud Implementation)
х	State Data Center
х	Commercially Hosted:
	Amazon (AWS) GovCloud
	Century Link - I/O Data Center
х	AWS (non-government) cloud
х	Microsoft Azure
х	Vendor Hosted
х	Other: (Please explain below) Microsoft Enterprise Directory Services - Active Directory
6 Secur	<u>ty</u>
_	Encryption
X	Security Appliances:
X	Firewall
	Intrusion Detection System (IDS)
	Intrusion Prevention System (IPS)
x	SecurityControls/Systems - Other: (Please specify below)
	Physical Controls (Badging Systems, Iris Scanners, Other: (Please specify below)
х	Other: (Please specify below) Mobility Management as part of the licensing bundle
7 Teleco	mmunications
	Network Communications Infrastructure
	Telephone Upgrade-Business-Specific
	Cabling
	Wireless Access Points
	Telephony Upgrade-EIC Solution
	Trenching
	Videoconferencing
	Other: (Please specify below)

8 Ente	erpris	se Solutions	
		Business Intelligence System	
		E-Signatures	
		Geographic Information Systems	
		Other Imaging - Photos, Fingerprin	ts, etc.
		Document Management/Imaging	
		eLicensing	
		Management Systems - Financial,	Grants, Asset
		Disaster Recovery/Business Contin	uity
	Х	Other: (Please specify below)	HRIS, AFIS, and an other Business applications will authenticate against this
9 Con	tract	Services/Procurement	
		Contracted Project Management	
		Contractor Support Services	
		Install/Configuration Contract Serv	rices
		State Contract	
		Vendor provided	
		Procurement (RFP, IFB, DPR, etc.)	
		Other: (Please specify below)	

Microsoft Licenses to be procured via SHI (on State Contract)

Meeting Invite Checklist

Role	Name	Email Address	Date Reviewed
Agency Project Sponsor*	Darrell Davis	darrell.davis@azdoa.gov	03/16/16
Agency Chief Information Officer (CIO) (or designee)*	Morgan Reed	morgan.reed@azdoa.gov	03/16/16
Agency Information Security Officer (ISO) (or designee)*	Mike Lettman / Darrell Davis	mike.lettman@azdoa.gov	03/16/16
Joint Legislative Budget Committee (JLBC) representative			
Office of Strategic Planning & Budgeting (OSPB) representative			
ADOA-ASET Strategic Program Manager *	Jeff Crane	jeffrey.crane@azdoa.gov	03/16/16
ADOA-ASET Security, Privacy & Risk (ASET-SPR) representative*	Dan Wilkins / Darrell Davis	dan.wilkins@azdoa.gov	03/16/16
Agency CPO or State Procurement Office (SPO) representative	Terri Johnson	terri.johnson@azdoa.gov	03/16/16
Agency CFO or Finance representative (if different from CPO)	Kim McCullough / Annabelle Molina (Kim addressed ongoing operational funding questions with JR Sloan)	kimberly.mccullough@azdoa.gov	03/14/16
	Others to Invite (if applicable):		_
Project Manager	John Huls	john.huls@azdoa.gov	03/16/16
ADOA Chief Technology Officer	Jason Simpson / Morgan Reed	jason.simpson@azdoa.gov	03/16/16
ADOA-ASET Strategic Program Manager *	James Dean	james.dean@azdoa.gov	03/16/16
ADOA-ASET Strategic Program Manager *	Veronica Garcia	veronica.garcia@azdoa.gov	03/16/16

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Has the value of the IT project to the public and the State been identified? Does the proposed solution address the stated problem or situation? Has the budget unit demonstrated competency to carry out the project successfully? Have all applicable questions in the PIJ been addressed? Have the Areas of Impact associated with the project been identified? Is sufficient sponsorship and support by budget unit leadership evidenced in the meeting? Has the compatibility of the proposed solution with other budget unit solutions been addressed? Has a reasonable Project Plan been provided? Has the compliance of the proposed solution with all applicable statewide standards been confirmed? Have any potential risks or issues associated with the project or the proposed solution been identified and appropriately addressed to minimize unintended consequences? Have the cost estimates for the project been vetted for accuracy? Have the PIJ Financials been completed? Have any/all of the following startup costs to implement the project been included under Development in the financial tables, if applicable - tax; shipping; upfront maintenance and support; professional services (P&OS); ancillary software to run on equipment; ancillary hardware to install equipment, e.g., cables; other associated costs, e.g., training, travel, documentation, etc.? Have any/all of the following ongoing/5-year support costs, once the project is implemented, been included under Operational in the financial tables, if applicable - ongoing vendor hosting costs, including any projected increase over time; annual maintenance and support not acquired upfront; extended costs after warranty expiration; P&OS commitments beyond implementation? Have you confirmed that no Full Time Employee (FTE) related costs have been included in the project costs? Have quotes been provided for all itemized costs in the PIJ, e.g., professional services, hardware, software, licensing, etc.? Do the quotes match the itemized list and only reflect those items and costs (within 5%) associated with this project? If not, describe below how the costs in the PIJ differ from the quotes, e.g., if quantities are different, costs are comprised of portions of multiple quotes provided, etc.: N/A

	PIJ Dispo	osition	
Approved			
Approved with conditions			
Not Approved			
İ	Strategic Program N	lanager Analysis	
will be evaluated. At that ti	,	irther roll-out to an expanded num nent would be completed if the dec	J
· ·	l of this project at this time. Th delegated authority.	project scope. There are no outsta is project development budget is fu	anding issues or
concerns regarding approva	of this project at this time. Th		anding issues or