



ADOA-ASET

Project Investment Justification

Version 03.31.15

A Statewide Standard Document for Information Technology Projects

Project Title:

WiFi Infrastructure for Remote Sites

Agency Name:	Arizona Attorney General's Office
Date:	April 16, 2015
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Agency Contact Phone:	
Agency Contact Email:	

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I. Project Investment Justification (PIJ) Type*

Yes No Is this document being provided for a Pre-PIJ / Assessment phase?

If Yes,

Identify any cost to be incurred during the Assessment phase.	\$
Based on research done to date, provide a high-level estimate or range of development costs anticipated for the full PIJ.	\$

Explain:

[Click here to enter text.](#)

Yes No Will a Request for Proposal (RFP) be issued as part of the Pre-PIJ or PIJ?

II. Business Case

A. Business Problem*

The AGO has a growing need to provide wireless network connectivity for Agency laptops, tablets, smartphones, and visiting guests. The AGO owns hundreds of laptops. Laptops must currently be connected via a wire to have network connectivity when used in any of the AGO remote sites. Wired connectivity for laptops greatly reduces mobility. The AGO has purchased and distributed dozens of iPads. The iPads are not 4G capable. Without wifi access, an iPad loses the majority of its functionality. The AGO has also distributed a number of iPhones. The iPhones do have 4G access, but wifi connectivity is faster and less expensive than 4G. The AGO has a number of guests and constituents that need network connectivity during their visit to the AGO. While wireless connectivity is much more convenient than wired, if the visitor is using a mobile device, wireless connectivity would likely be the only choice of connectivity.

B. Proposed Business Solution*

Install a wifi infrastructure at 17 AGO remote locations.

Remote Site Listing

Work Address	City
7 N. Bisbee, Bisbee AZ, 85603-1140	Bisbee
2323 N. WALGREENS ST. #100, FLAGSTAFF, AZ 86004	Flagstaff
30 N Florence Street Bldg, D, Florence, AZ 85132	Florence
2290 W GAUDALUPE RD. BLDG #3, GILBERT AZ 85233	Gilbert
519 E BEALE #120, KINGMAN, AZ 86401	Kingman
120 W. 1st Avenue, 2nd Floor, Mesa, AZ 85210	Mesa
515 N 51ST AVENUE, PHOENIX, AZ 85043	Phoenix
3425 E. Van Buren St. Ste. 100, Phoenix, AZ 85008	Phoenix
11420 N. 19th Ave, Phoenix, AZ 85029	Phoenix
3262 Bob Drive Suite 7 & 9, Prescott Valley, AZ 86314	Prescott

1000 Ainsworth, Prescott, Az	Prescott
333 W. WILCOX DR. #304, SIERRA VISTA, AZ 85635	Sierra Vista
3939 S. PARK AVE., #180, TUCSON, AZ 85714	Tucson
4221 S Santa Rita, Suite 101, Tucson AZ 85714	Tucson
1455 S. Alvernon Way, Suite 281, Tucson AZ 85711	Tucson
177 N. Church, Tucson Az	Tucson
1185 S Redondo Center Dr, Yuma, AZ 85365	Yuma

C. Quantified Benefits*

- Service enhancement
- Increased revenue
- Cost reduction
- Problem avoidance
- Risk avoidance

Explain:

Service Enhancement - Laptops currently must be connected to a wired network drop to gain system connectivity. None of the AGO iPads have 4G service. A wifi infrastructure would provide Internet access to visiting dignitaries, make the laptops more mobile, and make the iPads a productive tool.

III. Technology Approach

A. Proposed Technology Solution*

The AGO is proposing to use a Rukus wifi controller and Rukus access points. The wifi controller will provide a means to centrally manage the configuration of the access points. The controller will also manage the handoff of a wirelessly connected mobile device as a user roams between access point coverage zones. The Rukus access points will be connected to an AzNet access switch for power (POE) and data. All access points will be configured for AES wireless encryption.

B. Existing Technology Environment

The AGO has distributed dozens of mobile devices to staff at remote locations including older HP laptops, newer Dell laptops, Apple iPads, Apple iPhones, and some Droid smart phones. The tablets and smartphones have security profiles pushed down to them by the AGO Exchange system via Microsoft ActiveSync. The tablets and smart phones exchange email, calendar and contact data with the AGO email system, and can be remotely erased. The laptops are used to edit Agency files, perform presentations, and VPN into the Agency internal systems using RSA key fobs. All laptop file data is secured using AES level encryption.

C. Selection Process

The AGO considered Cisco wireless technology and AzNet provisioned wifi services. The AGO has experience working with both Cisco and Rukus wireless technology. Both companies make excellent wireless products, but Rukus offered the master/slave feature for its access points which will save the AGO a significant amount of monthly AzNet connectivity charges. The AzNet provisioned service charges \$30 per access point per month. Within 3 years of use, the Rukus solution becomes cheaper than the AzNet provisioned service because of the fewer number of connectivity fees incurred.

IV. Project Approach

A. Project Schedule*

Project Start Date: 5/1/2015 **Project End Date:** 9/4/2015

B. Project Milestones

Major Milestones	Start Date	Finish Date
Data drop installation for access points	5/1/14	6/30/14
Cisco switch Installation	5/18/14	9/4/14
Access point installation and setup	5/18/14	9/4/14
Controller installation and setup	5/1/14	6/1/14
Wifi activation	6/1/14	9/4/14

C. Project Roles and Responsibilities

Blackbox – Installation of data lines

Extreme Integration – Installation and configuration of all communications equipment. Train the AGO systems engineer on the maintenance and operation of the system.

AGO Systems Engineer – Assist Extreme Integration with installation of communications equipment.

AGO Office Administrator - Cut, log, and track project orders and invoicing.

AGO ISS Director – Track and report project status. Manage vendor activity. Approve all orders and invoicing.

V. Risk Matrix, Areas of Impact, Itemized List, PIJ Financials

VI. Project Approvals

A. Agency CIO/ISO Review and Initials Required*

Key Management Information	Yes	No	Initials
1. Is this project for a mission-critical application system?		X	
2. Is this project referenced in your agency's Strategic IT Plan?		X	
3. Have you reviewed and is this project in compliance with all applicable Statewide policies and standards for network, security, platform, software/application, and/or data/information located at https://aset.az.gov/resources/psp ? If NO , explain in detail in section "VIII. Additional Information" below.	X		
4. Will any PII, PHI, or other Protected Information as defined in the 8110 Statewide Data Classification Policy located at https://aset.az.gov/resources/psp be transmitted, stored, or processed with this project? If YES , the Protected Data section under "VII. Security Controls" below will need to be completed.	X		
5. Will this project migrate, transmit, or store data outside of the agency's in-house environment or the State Data Center? If YES , the Hosted Data section under "VII. Security Controls" below will need to be completed.		X	
6. Is this project in compliance with the Arizona Revised Statutes and GRRC rules?	X		
7. Is this project in compliance with the Statewide policy regarding the accessibility to equipment and information technology for citizens with disabilities?	X		

B. Project Values*

The following table should be populated with summary information from other sections of the PIJ.

Description	Section	Number or Cost
Assessment Cost (if applicable for Pre-PIJ)	I. PIJ Type - Pre-PIJ Assessment Cost	\$0
Total Development Cost	V. PIJ Financials tab	\$ \$62,750.06
Total Project Cost	V. PIJ Financials tab	\$66,950.06
FTE Hours	See Hover text for FTE Hours	80

C. Agency Approvals*

Approver	Printed Name	Signature	Email and Phone
Project Manager:	John Abretske		
Agency Information Security Officer:	Angela Alonso		
Agency CIO:	John Abretske		
Project Sponsor:	John Johnson		
Project Sponsor:	Terry Harrison		
Project Sponsor:	Don Conrad		

VII. Security Controls

Collaboration with the ADOA-ASET Security, Privacy and Risk (SPR) team may be needed to complete this section, which is only required for those projects that involve data that is Protected or Hosted outside of the Agency or State Data Center. Additional information can be found in the NIST FRAMEWORK section under RESOURCES at <https://aset.az.gov/resources/psp> or you may wish to contact ASET-SPR directly at secadm@azdoa.gov for assistance.

A. Protected Data

The wifi infrastructure will transmit data using AES level encryption. All data stored to laptops, jump drives, and mobile devices will be saved with AES level encryption. The AGO will have the ability to remotely erase lost or stolen smart phones and tablets. Remote system access will utilize dual factor authentication using passwords and RSA keyfobs.

B. Hosted Data

Check here if the <https://aset.az.gov/arizona-baseline-security-controls-excel> spreadsheet is attached. Otherwise explain below what information/ support is needed to complete the spreadsheet and/or why no sheet is attached:

Click here to enter text.

Check here if a Conceptual Design / Network Diagram is attached. Otherwise explain below what information/support is needed to complete the diagram and/or why no diagram is attached:

Click here to enter text.

VIII. Additional Information

IX. Attachments

The following are examples of supporting documents that should be sent as email attachments when required:

- A. *Vendor Quotes*
- B. *Conceptual Design / Network Diagram*

X. Glossary

Other Links:

[ADOA-ASET Website](#)

[ADOA-ASET Project Investment Justification Information Templates and Contacts](#)

Email Addresses:

[Strategic Oversight](#)

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