

Shared Hosted Data Center Agencies & Operations Phase 4

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Arizona Strategic Enterprise Technology

Project Requirements

Reviewed with ITAC last year (*remains the same*)

- *Shared Hosted Data Center(HDC) must:*
 - Be minimum a Tier 3 as defined by Telecommunications Industry Association(TIA)-942: Data Center Standards.
 - Large enough for expansion of State agencies footprint
 - Have both white (raised floor) space and Modular space
 - Meet all state & federal security requirements
- *Technology solution must:*
 - Provide redundancy by design
 - Allow leveraging and extending of State owned Fiber
 - Allow multi agency service hand off via equipment specifications



Scope / Recommended Solutions

Reviewed with ITAC last year

- Lease space at I/O Data Center
- Lease 4 strands of Commercial Fiber
- Fiber Splicing at the Capitol Mall - planned
- Acquire and Deploy Dense Wavelength Division Multiplexing (DWDM) to connect Capitol Mall to I/O via leased Fiber
- Acquire & Deploy Data Center switching Infrastructure

Original PIJ - Phase Detail

- Funding for Phase I (was requested for FY2017 and approved in the amount of \$5.7M) to establish presence in a shared HDC that all agencies can leverage, allowing to proceed with other phases to move out of the current State Data Center. **COMPLETE**
- Phase II. Relocation of ADOA Hosted (co-located) agencies and ADOA services I.e. Servers that are not in the cloud. **COMPLETE**
- Phase III. Voice and Security Services relocation including SIP implementation. **COMPLETE;**
- Phase IV. Establishing & implementing solution for other aging State Data Center(s). **COMPLETE ON 6/30/2020**



IV&V Report Info-Tech - Key Plan Viability Findings

- The project has provided substantial benefits through the current pandemic. It is highly unlikely that the agencies would have been able to handle the work-from-home plan if the cloud first initiative had not been completed.
- This has been a very successful project. The project ran within budget and completed on time despite potential internal and external (COVID19) disruptors. It is an example of well staffed, well planned, and well executed project.
- The Plan was viable and staffed by an experienced infrastructure team.
- Project Management Practices have been implemented with continual management oversight.
- The use of Equinix, specifically the google pipeline, allowed improved management of traffic for services like google hangout.
- Internally developed project budget tracking tool allowed virtually real-time updating and weekly vendor reconciliations. This tool allowed project management to be more agile in budget decision making. The tool and its associated processes have become standard practice for all projects

FY20 Phase 4 Spend

Development Costs - FY20

Cloud and Data Center Connectivity (Equip.)	\$ 423,000
Build Out and Complete Redundant Fiber Path To Capitol Mall Buildings	\$ 603,138
Fiber Patch Cords, Jumpers and SFPs	\$ 48,000
1510 Data Center Demolition (Fiber & infrastructure protection)	\$ 270,000
TOTAL FY20 SPEND	\$ 1,344,138

QUESTIONS