

Oakland County Department of Information Technology Project Scope and Approach

Project Name: Data Center Operations Implementation

Project ID: TN2186DI

Leadership Group: Information Technology Steering Committee					
Department: Information Technology			Division: Technical Systems and Networking		
Project Sponsor: Joe Tabor		Date Requested: 06/10/2022		PM Customer No. 186	
Request Type: New Development					
IT Team Name: Workstation Services			IT Team No: N		
Project Manager/Leader: Mike Zemina					
Account Number:	17030	Account Description:	Technical Systems and Networking	Customer Name:	Information Technology
Grant Funded? No		Mandate? No			
		Mandate Source:			

Project Goal

To implement a Data Operations Center solution so that IT can improve and streamline monitoring and management of the network infrastructure, associated nodes and services. Additionally, implement system intelligence to produce automated responses based on the type of issue or outage that's seen by the NOC solution.

Business Objective

To implement an infrastructure and application monitoring system that provides real time data that helps IT expediate business continuity. Additionally, IT will gain efficiency with the consolidation of the monitoring tool suite.

Major Deliverables

- Business Requirements
- RFP process
- Technical Review and Approval
- Monitoring solution for County systems
- System documentation, including knowledge documents
- Trained staff
- Baseline performance
- Disaster Recovery Toolkit (DR Toolkit)

Approach

- Document technical design
- Work with vendor to setup / configure system
- Develop SOP (Standard Operating Procedure)
- Have appropriate staff attend training on selected solution
- Utilize auto-discovery to obtain original network device list.
- Document performance baseline for trending

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Research & Analysis

IT Research & Advisory Services Recommendation

- Research not Required

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users All

Divisions All

Leadership Groups All

Risk

Business Environment **Medium** - Project will require some changes to existing business processes (for IT teams only).

Technical Environment **Low** - Proven and previously implemented technologies.

Assumptions

Staffing IT Staffing: resources will be available for the hours indicated per the attached project plan.

Other Staffing: additional staffing will be available as follows:

<u>Role:</u>	<u>Name</u>	<u>Hours per Day</u>
Project Sponsor:	Joe Tabor	As Needed
App Services Stakeholder:	Tammi Shepherd	As Needed
CLEMIS Stakeholder:	Jeff Nesmith	As Needed
CTO:	EJ Widun	As Needed
IT Director:	Mike Timm	As Needed

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Facilities

- Existing Network Operations room in Bldg 49 will be used

Technical

- New application will be purchased to manage systems.

Funding

- Information Technology

Other

- Leverage existing documentation to aid in writing SOPs and other documentation for the NOC.

Priority TBD

Constraints

- None

Exclusions

- Video Arraignment System.
- Environmental conditions monitoring tools.
- Workstation monitoring.

In-Scope

- Mission critical applications and infrastructure (SAN, backup, & Database).
- Critical Core network infrastructure is composed of major switches, routers & firewalls (internal & external).
- VMWare infrastructure.

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PROJECT PHASE AUTHORIZATION

Phase(s):	
Total Estimated Application Services	Hours: 157
Total Estimated Technical Systems	Hours: 1.685
Total Estimated CLEMIS	Hours: 257
Total Estimated Internal Services	Hours: 34
IT Application Services Division Manager Approval:	Date:
IT Technical Systems Division Manager Approval:	Date:
IT CLEMIS Division Manager Approval:	Date:
IT Internal Services Division Manager Approval:	Date:
IT Management Approval:	
Approved: Yes No	Date:
Reason:	
Project Sponsor Approval:	
Title:	Date:

PROJECT SUMMARY

Authorized Development (see above)	Hours: 2,133
Previously Authorized Development	Hours:
Preliminary Estimated Development for Future Phases	Hours:
Grand Total Estimated Development	Hours: 2,133 Cost: \$351,945

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PROJECT COMPLETION AUTHORIZATION

Customer Acceptance of Product:	
Title:	Date:
Project Office Review:	Date:

Data Center Operations Implementation - Size Estimate (+/- 10% to 50%) (Read-Only) x				
Type	ID	Task Name	Estimated Hours	Estimate Notes
1	Phase 000000	PROJECT ADMINISTRATION - DC OPERATIONS IMP	613	
2	Phase 100000	DEVELOP RFP & SELECT VENDOR - DC OPERATIONS IMP	256	
3	Phase 200000	DEFINE BUSINESS REQUIREMENTS - DC OPERATIONS IMP	140	
4	Phase 300000	DESIGN SYSTEM ARCHITECTURE - DC OPERATIONS IMP	57	
5	Phase 400000	IMPLEMENT VENDOR APPLICATION - DC OPERATIONS IMP	101	
6	Phase 500000	SOP & DOCUMENTATION - DC OPERATIONS IMP	900	
7	Phase 600000	IMPLEMENTATION - DC OPERATIONS IMP	46	
8	Phase 700000	POST IMPLEMENTATION SUPPORT - DC OPERATIONS IMP	20	
9				
			2,133	

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Return on Investment Analysis

Project Summary

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Benefits/Savings:							
Tangible Benefits Subtotal:	0	0	0	0	0	0	0
Cost Avoidance Subtotal:	49,920	49,920	49,920	49,920	49,920	0	249,600
Costs:							
Development Services Subtotal:	351,945	0	0	0	0	0	351,945
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	635,000	150,000	150,000	150,000	150,000	0	1,235,000
Infrastructure Subtotal:	0	0	0	0	0	0	0
Training Subtotal:	0	0	0	0	0	0	0
Other Subtotal:	0	0	0	0	0	0	0
Annual Statistics:							
Annual Total Savings	49,920	49,920	49,920	49,920	49,920	0	249,600
Annual Total Costs	986,945	150,000	150,000	150,000	150,000	0	1,586,945
Annual Return on Investment	(937,025)	(100,080)	(100,080)	(100,080)	(100,080)		(1,337,345)
Annual Costs/Savings Ratio	1977.05%	300.48%	300.48%	300.48%	300.48%	0.00%	
Project Cumulative Statistics:							
Cumulative Total Savings	49,920	99,840	149,760	199,680	249,600	249,600	249,600
Cumulative Total Costs	986,945	1,136,945	1,286,945	1,436,945	1,586,945	1,586,945	1,586,945
Cumulative Return on Investment	(937,025)	(1,037,105)	(1,137,185)	(1,237,265)	(1,337,345)	(1,337,345)	(1,337,345)
Cumulative Cost/Savings Ratio	1977.05%	1138.77%	859.34%	719.62%	635.80%	635.80%	635.80%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							
Signatures:							
Benefits Reviewed By Project Sponsor	Date: _____						
Costs (including IT Resources) Reviewed By Information Technology Project Manager	Date: _____						
Costs (including IT Resources) Reviewed By Technical Services Manager	Date: _____						

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Return on Investment Analysis

Cost Detail

Cost Description	Project Cost Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Cost	Annual Multiplier	Affect	
								Y1	Y2
IT Hours - New Development	Development Svcs	IT - Information Technology / 17030	HR	2,133	165	351,945		x	
IT Hours - New Development	Development Svcs	IT - Information Technology / 17030	HR	0	122	0		x	
IT Hours - New Development	Development Svcs	IT - Information Technology / 17030	HR	0	116	0		x	
IT Hours - New Development	Development Svcs	IT - Information Technology / 17030	HR	0	77	0		x	
IT Hours - New Development	Development Svcs	IT - Information Technology / 17030	HR	0	75	0		x	
IT Hours - New Development	Development Svcs	IT - Information Technology / 17030	HR	0	56	0		x	
Networking Monitoring Application		IT - Information Technology / 17030	EA	1	635,000	635,000	1.100	x	
Networking Monitoring App maintenance		IT - Information Technology / 17030	EA	1	122	150,000	1.000		x
					122	0			
					122	0			
					122	0			
					122	0			
					122	0			
Laserprinter 2 - Maintenance	Hardware				1,208	0			
Laserprinter 3 - Acquisition	Hardware					0			
Laserprinter 3 - Maintenance	Hardware				1,860	0			
Image Workstations - Acquisition	Hardware					0			
Image Workstations - Maintenance	Hardware				3,496	0			
Terminals - Acquisition	Hardware			2,135		0			
Terminals - Maintenance	Hardware				644	0			
PRTR w/TERM ID - Acquisition	Hardware					0			
PRTR w/TERM ID - Maintenance	Hardware				1,072	0			
PRTR w/o TERM ID - Acquisition	Hardware					0			
PRTR w/o TERM ID - Maintenance	Hardware				1,072	0			
PC Maintenance User Owned	Hardware				2,304	0			
Printer Maintenance User Owned	Hardware				1,072	0			
Package Software - Acquisition	Software					0			
Package Software - Maintenance	Software					0			
Business Objects Access	Software					0			
Term Emulation SFTW-Acquisition	Software					0			
Term Emulation SFTW-Maintenance	Software					0			
Server - Acquisition/Upgrade	Infrastructure					0			

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Return on Investment Analysis

Cost Detail

Cost Description	Project Cost Category	Budget Category/Funding Source	Unit	Units	Rate per	Total Cost	Annual	Affect	
			Desc		Unit		Multiplier	Y1	Y2
Server - Maintenance	Infrastructure					0			
Server Sftwre - Acquisition/Upgrade	Infrastructure					0			
Server Sftwre - Maintenance	Infrastructure					0			
TBD	Infrastructure					0			
TBD	Infrastructure					0			
TBD	Infrastructure					0			
TBD	Infrastructure					0			
Internet Access	Infrastructure					0	180		
Project Staff Training	Training					0			
User Training	Training					0			
						0			
						0			
						0			
						0			
						0			

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Return on Investment Analysis

Cost Detail

Cost Description	Project Cost Category	Project ROI?				Potential Cost Extensions					
		Y3	Y4	Y5	Y6	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs					351,945					
IT Hours - New Development	Development Svcs					0					
IT Hours - New Development	Development Svcs					0					
IT Hours - New Development	Development Svcs					0					
IT Hours - New Development	Development Svcs					0					
IT Hours - New Development	Development Svcs					0					
Networking Monitoring Application						635,000					
Networking Monitoring App maintenance		x	x	x	x		150,000	150,000	150,000	150,000	150,000
Laserprinter 2 - Maintenance	Hardware										
Laserprinter 3 - Acquisition	Hardware										
Laserprinter 3 - Maintenance	Hardware										
Image Workstations - Acquisition	Hardware										
Image Workstations - Maintenance	Hardware										
Terminals - Acquisition	Hardware										
Terminals - Maintenance	Hardware										
PRTR w/TERM ID - Acquisition	Hardware										
PRTR w/TERM ID - Maintenance	Hardware										
PRTR w/o TERM ID - Acquisition	Hardware										
PRTR w/o TERM ID - Maintenance	Hardware										
PC Maintenance User Owned	Hardware										
Printer Maintenance User Owned	Hardware										
Package Software - Acquisition	Software										
Package Software - Maintenance	Software										
Business Objects Access	Software										
Term Emulation SFTW-Acquisition	Software										
Term Emulation SFTW-Maintenance	Software										
Server - Acquisition/Upgrade	Infrastructure										

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Cost Detail

Cost Description	Project Cost Category	Project ROI?				Potential Cost Extensions					
		Y3	Y4	Y5	Y6	Y1	Y2	Y3	Y4	Y5	Y6
Server - Maintenance	Infrastructure										
Server Sftwre - Acquisition/Upgrade	Infrastructure										
Server Sftwre - Maintenance	Infrastructure										
TBD	Infrastructure										
TBD	Infrastructure										
TBD	Infrastructure										
TBD	Infrastructure										
Internet Access	Infrastructure										
Project Staff Training	Training										
User Training	Training										

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Return on Investment Analysis

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Development Services:							
IT Hours - New Development	351,945						351,945
IT Hours - New Development	0						
IT Hours - New Development	0						
IT Hours - New Development	0						
IT Hours - New Development	0						
IT Hours - New Development	0						
<i>Development Services Subtotal:</i>	351,945						351,945
Hardware:							
<i>Hardware Subtotal:</i>							
Software:							
Networking Monitoring Application	635,000						635,000
Networking Monitoring App maintenance		150,000	150,000	150,000	150,000		600,000
							0
<i>Software Subtotal:</i>	635,000	150,000	150,000	150,000	150,000		1,235,000
Infrastructure:							
<i>Infrastructure Subtotal</i>							
Training:							
<i>Training Subtotal:</i>							
Other:							
<i>Other Subtotal:</i>							
Costs Total:	986,945	150,000	150,000	150,000	150,000		1,586,945

