Oakland County
Department of Information Technology
Project Scope and Approach

Project Name: Universal Threat Management Implementation   Project ID: TP1186FW

Leadership Group: Information Technology Steering Committee	
Department: Information Technology	**Division:** Technical Systems and Networking
Project Sponsor: Mike Timm	**Date Requested: 5/18/20** — **PM Customer No. 186**
Request Type: New Development	
IT Team Name: Network Services	**IT Team No:** P
Project Manager/Leader: Jerry Cadreau	
Account Number: 17030 **Account Description:** Information Technology	**Customer Name:** Information Technology
Grant Funded? No	**Mandate?** No **Mandate Source:**

Project Goal

To replace the internal and external threat management systems so that data security is maintained and improved.

Business Objective

Implement internal and external threat management system.

Major Deliverables

1. Implemented Threat Management System
2. System documentation
3. DR Toolkit

Approach
1. Migrate existing firewall policies.
2. Migrate by interface
3. Complete penetration scanning and testing
4. Complete staff training and documentation

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Research & Analysis

Gartner Research Recommendation   Research Conducted

Network firewalls form the foundation for overall network security, often subsuming related functions such as application awareness and control, intrusion detection and prevention, URL filtering, advanced malware detection, logging, and reporting. IDPS, application control and URL filtering continue to remain the top three security features being used, in addition to pure firewall functionality.

More organizations are moving toward hybrid networks and seeking firewall capabilities in the cloud, and cloud vendors are also offering native firewall capabilities to their clients. Traditional firewalls also offer support for these cloud platforms. Cloud-native firewall policy support is an emerging requirement for network firewall shortlists.

The firewall as a service (FWaaS) delivery model is still not gaining much traction because it usually fulfills requirements for only the branch office egress traffic use case. It is not capable of meeting the requirements for high performance, traffic ingress or internal segmentation.

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users   The firewalls affect all users of the County network.

Divisions   All

Leadership Groups Information Technology Steering Committee

Risk

Business Environment   **Low -** Little or no impact to existing business processes

Technical Environment   **Low –** Proven and previously implemented technologies

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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:

Role:	Name	Hours per Day
Project Sponsor:	Mike Timm	As Needed
Chief of Network Services:	Guy Compton	As Needed
CTO / EA Stakeholder:	EJ Widun	As Needed
CISO Stakeholder	T.J. Fields	As Needed
Internal Services Stakeholder:	Janette McKenna	As Needed
App Services Stakeholder:	Tammi Shepherd	As Needed
CLEMIS Stakeholder:	Jeff Nesmith	As Needed

Facilities

- Not Applicable

Technical

- None

Funding

- Information Technology

Other

- RFP and Requirement of the Universal Threat Management system will be delivered in *TP0186FW - Universal Threat Management Replacement*.
- Firewall EOL is June 2022. So the implementation of solution is to be completed before that timeframe.

Priority

-

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Constraints

- Not Applicable

Exclusions

-

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PROJECT PHASE AUTHORIZATION

Phase(s): All			
Total Estimated Application Services	**Hours:**	**320**	
Total Estimated Technical Systems	**Hours:**	**2,266**	
Total Estimated CLEMIS	**Hours:**		
Total Estimated Internal Services	**Hours:**		
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: 2,586**		
Preliminary Estimated Development for Future Phases	**Hours:**		
Grand Total Estimated Development	**Hours: 2,586**	**Cost: $ 426,690**	

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PROJECT COMPLETION AUTHORIZATION

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

Universal Threat Management Implementation - Size Estimate (+/- 10% to 50%)

	Type	ID	Task Name	Estimated
1				
2				Hours
3	3	000000	**PROJECT MANAGEMENT**	551
4	Phase	100000	**IMPLEMENTATION PHASE**	1,681
5	Phase	200000	**POST IMPLEMENTATION SUPPORT**	354
6				2,586

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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:	0	0	0	0	0	0	0
Costs:							
Development Services Subtotal:	426,690	0	0	0	0	0	426,690
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	0	0	0	0	0	0	0
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	0	0	0	0	0	0	0
Annual Total Costs	426,690	0	0	0	0	0	426,690
Annual Return on Investment	(426,690)						(426,690)
Annual Costs/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
Project Cumulative Statistics:							
Cumulative Total Savings	0	0	0	0	0	0	0
Cumulative Total Costs	426,690	426,690	426,690	426,690	426,690	426,690	426,690
Cumulative Return on Investment	(426,690)	(426,690)	(426,690)	(426,690)	(426,690)	(426,690)	(426,690)
Cumulative Cost/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
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: _____		_____				

Oakland County --Universal Threat Management Implementation

Return on Investment Analysis
Savings Detail

Benefit/Savings Description	Project Savings Category	Budget Category/Funding Source	Unit Desc	Units	Rate per Unit	Total Savings	Annual Multiplier
Updated Threat Management system will increase the safety of all Oakland County applications and data	Intangible Benefit					0	

Oakland County --Universal Threat Management Implementation

Return on Investment Analysis
Savings Detail

Benefit/Savings Description	Project Savings Category	Affects Project ROI?						Potential Savings Extensions					
		Y1	Y2	Y3	Y4	Y5	Y6	Y1	Y2	Y3	Y4	Y5	Y6
Updated Threat Management system will increase the safety of all Oakland County applications and data	Intangible Benefit												

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Return on Investment Analysis
Savings Summary

Benefit/Savings Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Tangible Benefit:							
Tangible Benefits Subtotal:							
Cost Avoidance:							
Cost Avoidance Subtotal:							
Intangible Benefit:							
Updated Threat Management system will increase the safety of all Oakland County applications and data							
Savings Total:							

Oakland County --Universal Threat Management Implementation

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	Affects Project RO				
								Y1	Y2	Y3	Y4	Y5
IT Hours	Development Svcs			2,586	165	426,690	1.000	X				
IT Hours - System Maintenance	Development Svcs				165	0	1.000		X	X	X	X
IT Hours - Customer Support	Development Svcs				165	0	1.000		X	X	X	X
IT Hours - Planned Maintenance	Development Svcs				165	0	1.000		X		X	
User Hours - New Development	Development Svcs					0						
User Hours - PTNE/OT	Development Svcs					0						
Threat Management System	Hardware		EA		600,000	0	1.000	x				
Professional Services to implement Threat Management System	Hardware		EA		120,000	0	1.000	x				
SSL Certificate	Infrastructure				845	0						
TBD	Infrastructure			0	0	0						
Internet Access	Infrastructure				180	0						
Project Staff Training	Training					0						
User Training	Training					0						

Return on Investment Analysis
Cost Detail

Cost Description	Project Cost Category	ROI? Y6	Potential Cost Extensions					
			Y1	Y2	Y3	Y4	Y5	Y6
IT Hours	Development Svcs		426,690.00					
IT Hours - System Maintenance	Development Svcs	X		0.00	0.00	0.00	0.00	0.00
IT Hours - Customer Support	Development Svcs	X		0.00	0.00	0.00	0.00	0.00
IT Hours - Planned Maintenance	Development Svcs	X		0.00		0.00		0.00
User Hours - New Development	Development Svcs							
User Hours - PTNE/OT	Development Svcs							
Threat Management System	Hardware		0.00					
Professional Services to implement Threat Management System	Hardware		0.00					
SSL Certificate	Infrastructure							
TBD	Infrastructure		0.00					
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	426,690						426,690
IT Hours - System Maintenance		0	0	0	0	0	
IT Hours - Customer Support		0	0	0	0	0	
IT Hours - Planned Maintenance		0		0		0	
User Hours - New Development							
User Hours - PTNE/OT							
Development Services Subtotal:	*426,690*						*426,690*
Hardware:							
Threat Management System	0						
Hardware Subtotal:							
Software:							
Software Subtotal:							
Infrastructure:							
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							
Professional Services to implement Threat Management System	0						

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Other Subtotal:							
Costs Total:	*426,690*						*426,690*

Date	Assumption Description	
23-Sep-20	RFP and Requirement of the Universal Threat Management system will be delivered in TP0186FW - Universal Threat Management Replacement.	
23-Sep-20	Firewall EOL is June 2022. So the implementation of solution is to be completed before that timeframe.	