

# Oakland County Department of Information Technology Project Scope and Approach

**Project Name: Universal Threat Management Replacement**

**Project ID: TP0186FW**

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

## Project Goal

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

## Business Objective

Create RFP to obtain and implement internal and external threat management system.

### **Major Deliverables**

1. Requirements document
2. Completed RFP
3. Contract and Scope of Work
4. Procurement
5. EA Review
6. Base Installation

### **Approach**

1. Define requirements.
2. Create RFP, Score responses, select vendor.
3. Complete Scope of Work and contract.
4. Design routing between firewall and destinations
5. Review policies.
6. Create plan to migrate existing firewall policies.

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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:

<b><u>Role:</u></b>	<b><u>Name</u></b>	<b><u>Hours per Day</u></b>
Project Sponsor:	Mike Timm	As Needed
Chief of Network Services:	Guy Compton	As Needed
CTO / EA Stakeholder:	EJ Widun	As Needed
CISO	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**

- Implementation of the Universal Threat Management system will be delivered in [TP1186FW - Universal Threat Management Implementation](#).
- 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**

<b>Phase(s): All</b>	
<b>Total Estimated Application Services</b>	<b>Hours: 110</b>
<b>Total Estimated Technical Systems</b>	<b>Hours: 1,914</b>
<b>Total Estimated CLEMIS</b>	<b>Hours:</b>
<b>Total Estimated Internal Services</b>	<b>Hours:</b>
<b>IT Application Services Division Manager Approval:</b>	<b>Date:</b>
<b>IT Technical Systems Division Manager Approval:</b>	<b>Date:</b>
<b>IT CLEMIS Division Manager Approval:</b>	<b>Date:</b>
<b>IT Internal Services Division Manager Approval:</b>	<b>Date:</b>
<b>IT Management Approval:</b>	
Approved: <span style="margin-left: 150px;">Yes</span> <span style="margin-left: 100px;">No</span>	<b>Date:</b>
Reason:	
<b>Project Sponsor Approval:</b>	
Title:	<b>Date:</b>

**PROJECT SUMMARY**

<b>Authorized Development (see above)</b>	<b>Hours:</b>
<b>Preliminary Estimated Development for Future Phases</b>	<b>Hours:</b>
<b>Grand Total Estimated Development</b>	<b>Hours: 2,024      Cost: 333,960</b>

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## PROJECT COMPLETION AUTHORIZATION

<b>Customer Acceptance of Product:</b>	
Title:	Date:
<b>Project Office Review:</b>	Date:

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

1	Type	ID	Task Name	Estimated	Estimate Notes
2				Hours	
3	<b>3</b>	<b>000000</b>	<b>PROJECT MANAGEMENT</b>	<b>437</b>	
4	<b>Phase</b>	<b>100000</b>	<b>DEVELOP RFP &amp; SELECT VENDOR</b>	<b>530</b>	
5	<b>Phase</b>	<b>200000</b>	<b>DEFINE BUSINESS REQUIREMENTS</b>	<b>210</b>	
6	<b>Phase</b>	<b>300000</b>	<b>DESIGN SYSTEM ARCHITECTURE</b>	<b>410</b>	
7	<b>Phase</b>	<b>400000</b>	<b>IMPLEMENT VENDOR APPLICATION</b>	<b>437</b>	
8				2,024	

**Oakland County --Universal Threat Management Replacement**

Return on Investment Analysis  
Project Summary

Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
<b>Benefits/Savings:</b>							
Tangible Benefits Subtotal:	0	0	0	0	0	0	0
Cost Avoidance Subtotal:	0	0	0	0	0	0	0
<b>Costs:</b>							
Development Services Subtotal:	333,960	0	0	0	0	0	333,960
Hardware Subtotal:	600,000	0	0	0	0	0	600,000
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:	120,000	0	0	0	0	0	120,000
<b>Annual Statistics:</b>							
Annual Total Savings	0	0	0	0	0	0	0
Annual Total Costs	1,053,960	0	0	0	0	0	1,053,960
Annual Return on Investment	(1,053,960)						(1,053,960)
Annual Costs/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	
<b>Project Cumulative Statistics:</b>							
Cumulative Total Savings	0	0	0	0	0	0	0
Cumulative Total Costs	1,053,960	1,053,960	1,053,960	1,053,960	1,053,960	1,053,960	1,053,960
Cumulative Return on Investment	(1,053,960)	(1,053,960)	(1,053,960)	(1,053,960)	(1,053,960)	(1,053,960)	(1,053,960)
Cumulative Cost/Savings Ratio	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%	0.00%
Year Positive Payback Achieved State or Federal Mandate?							NO PAYBACK
<b>Signatures:</b>							
Benefits Reviewed By Project Sponsor	Date:	_____		_____			
Costs (including IT Resources) Reviewed By Information Technology Project Manager	Date:	_____		_____			

**Oakland County --Universal Threat Management Replacement**

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 Replacement**

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													

**Oakland County --Universal Threat Management Replacement**

Return on Investment Analysis  
Savings Summary

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

**Oakland County --Universal Threat Management Replacement**

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 R0					
								Y1	Y2	Y3	Y4	Y5	
IT Hours	Development Svcs			2,024	165	333,960	1.000	X					
IT Hours - System Maintenance	Development Svcs				165	0	1.000	X	X	X	X	X	
IT Hours - Customer Support	Development Svcs				165	0	1.000	X	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	1	600,000	600,000	1.000	x					
Professional Services to implement Threat Management System	Hardware		EA	1	120,000	120,000	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							

**Oakland County --Universal Threat Management Replacement**

Return on Investment Analysis  
Cost Detail

Cost Description	Project Cost Category	DI?	Potential Cost Extensions					
		Y6	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours	Development Svcs		333,960.00					
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		600,000.00					
Professional Services to implement Threat Management System	Hardware		120,000.00					
SSL Certificate	Infrastructure							
TBD	Infrastructure		0.00					
Internet Access	Infrastructure							
Project Staff Training	Training							
User Training	Training							

**Oakland County --Universal Threat Management Replacement**

Return on Investment Analysis  
Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
<b>Development Services:</b>							
IT Hours	333,960						333,960
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							
<i>Development Services Subtotal:</i>	<b>333,960</b>						<b>333,960</b>
<b>Hardware:</b>							
Threat Management System	600,000						600,000
<i>Hardware Subtotal:</i>	<b>600,000</b>						<b>600,000</b>
<b>Software:</b>							
<i>Software Subtotal:</i>							
<b>Infrastructure:</b>							
<i>Infrastructure Subtotal</i>							
<b>Training:</b>							
<i>Training Subtotal:</i>							
<b>Other:</b>							
Professional Services to implement Threat Management System	120,000						120,000

**Oakland County --Universal Threat Management Replacement**

Return on Investment Analysis  
Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
<i>Other Subtotal:</i>	<i>120,000</i>						<i>120,000</i>
<b>Costs Total:</b>	<b>1,053,960</b>						<b>1,053,960</b>

