Project Name: HSD Inventory Management Implementation Project ID: D51166IM

Leadership Group: Finance Admin			
Department: Emergency Mgmt & Ho	omeland Security	Division: Emerg	ency Management
Project Sponsor: Thom Hardesty	Date Requested	d: 10/19/21	PM Customer No. 110
Request Type: New Development	Er	nhancement	Customer Support
Planned S	System Maintenance	or Upgrade	
IT Team Name: Public and Environmental Services		IT Team No: 5	
Project Manager/Leader: Stu Smith			
Account 17020 Account Description		Services	Customer Name:
Grant Funded? No	Mai	ndate? No	
	Mar	ndate Source:	

Project Goal

To implement a new inventory management solution for Emergency Management so that supplies and PPE purchased and stored for use and distribution during the pandemic and in future emergencies can be tracked and maintained in a centralized location.

Business Objective

To implement a new inventory management system including barcode scanning and tracking functionality that will allow for the Emergency Management department track and maintain current and future inventory for use during emergencies. The new system will allow end users to access online inventory reports to improve inventory planning and distribution.

Major Deliverables

- Detailed Project Plan
- Application and/or System Requirements
- End User Hardware and Software Requirements Document
- Technical Design Document
- Technical Architecture Diagram
- User Acceptance Test Plan
- Implementation Plan
- Training/User Manual(s)
- Service Level Agreement
- Disaster Recovery Toolkit
- Service Center Knowledge Documents

Project Name: HSD Inventory Management Implementation Project ID: D51166IM

Approach

- Develop Detailed Project Plan
- Document system requirements
- Determine and document system architecture and diagram
- Conduct Tech Review
- Develop Implementation Plan
- Configure new system
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Conduct Change Control
- Develop User Documentation, Disaster Recovery Toolkit, Service Center Knowledge Documents
- Train users on new system
- Release new system into production

Research & Analysis

Research Conducted - Nothing Found

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users 5 Emergency Management users

Divisions Emergency Management

Leadership Groups Finance/Admin

Project Name: HSD Inventory Management Implementation Project ID: D51166IM

Risk

Business Environment MEDIUM - Project will require some changes to existing business

processes

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:

Role:NameHours per DayProject SponsorThom HardestyAs NeededBusiness Process SMERobert SeeleyAs Needed

Facilities

•

Technical

Okta integration expected.

Funding

ARP

Other

• Will include purchase and set up of handheld barcode scanner and printer

Priority

Constraints

None Applicable

Exclusions

•

Project Name: HSD Inventory Management Implementation Project ID: D51166IM

PROJECT PHASE AUTHORIZATION

Phase(s): All			
Total Estimated Application Services	Hours: 268		
Total Estimated Technical Systems	Hours: 23		
Total Estimated CLEMIS	Hours:		
Total Estimated Internal Services	Hours:		
IT Application Services Division Manager Approva	l:		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: 291	
Preliminary Estimated Development for Future Phases	Hours: 0	
Grand Total Estimated Development	Hours: 291	Cost: \$48,015

Project Name: HSD Inventory Management Implementation Project ID: D51166IM

PROJECT COMPLETION AUTHORIZATION

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

HSD Inventory Management Implementation - Size Estimate (+/- 10% to 50%)

1 Type	ID	Task Name	Estimated	Estimate Notes
2			Hours	
³ Phase	000000	PROJECT MANAGEMENT	99	
4 Phase	300000	DESIGN SYSTEM ARCHITECTURE	44	
5 Phase	400000	IMPLEMENT VENDOR APPLICATION	47	
6 Phase	500000	IMPLEMENTATION PHASE	73	
7 Phase	600000	POST IMPLEMENTATION SUPPORT	28	
8			291	

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:	48,015	6,666	6,733	6,800	6,868	6,937	82,018
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	13,335	14,000	14,702	15,437	16,202	0	73,676
Infrastructure Subtotal	0	0	0	0	0	0	0
Training Subtotal:	0	0	0	0	0	0	0
Other Subtotal:	4,614	0	0	0	0	0	4,614
Annual Statistics:							
Annual Total Savings	0	0	0	0	0	0	0
Annual Total Costs	65,964	20,666	21,435	22,237	23,070	6,937	160,308
Annual Return on Investment	(65,964)	(20,666)	(21,435)	(22,237)	(23,070)	(6,937)	(160,308)
	0.00%	0.00%	0.00%		0.00%	0.00%	(100,306)
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	65,964	86,630	108,065	130,302	153,372	160,308	160,308
Cumulative Return on Investment	(65,964)	(86,630)	(108,065)	(130,302)	(153,372)	(160,308)	(160,308)
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:			

Date Printed: 12/14/2021

Page 1

REV: May 21, 2018

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
Improved availability, accessibility, and uptime for quick decision making in the							
event of an emergency.	Intangible Benefit					0	1.010
Provide greater confidence in the reporting of available supplies, limited							
items, and urgent needs.	Intangible Benefit					0	1.000
						0	1.010
						0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	
						0	

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REV: May 21, 2018

Return on Investment Analysis

Savings Detail

		Af	fect	s Pr	oje	ct R	OI?		Potential Savings Extensions								
Benefit/Savings Description	Project Savings Category	Y1	Y2	Y 3	Υ4	Y5	Ye	Y1	Y2	Y 3	Y4	Y5	Y6				
Improved availability, accessibility, and uptime for quick decision making in the event of an emergency.																	
	Intangible Benefit		Χ	Χ	Χ	Х	Χ		0.00	0.00	0.00	0.00	0				
Provide greater confidence in the reporting of available supplies, limited																	
items, and urgent needs.	Intangible Benefit		Χ	Χ	Χ	Χ	Χ		0.00	0.00	0.00	0.00	0				
			Χ	Χ	Х	Χ	Χ		0.00	0.00	0.00	0.00	0				
			<u> </u>	<u> </u>	H	-	╢										
					<u> </u>	-	<u> </u>										
			<u> </u>	<u> </u>	İ	1	ŀ										
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					<u> </u>	-	-										
					<u> </u>	İ											

Date: 12/07/2021

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:							
Improved availability, accessibility, and							
uptime for quick decision making in the							
event of an emergency.							
Provide greater confidence in the reporting							
of available supplies, limited items, and							
urgent needs.							
Sovings Total:							
Savings Total:							

Date Printed: 12/14/2021

Return on Investment Analysis

Cost Detail

								Δf	fect	s Pr	oiec	t RC) ?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual		000		٥٫٥٥		
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Υ3	Y 4	Y5	Y6
IT Hours - New Development	Development Svcs		HR	291	165	48,015		Х				_	\blacksquare
IT Hours - System Maintenance	Development Svcs		HR	20	165	3,300	1.010		Х	Х	Χ	Х	Х
IT Hours - Customer Support	Development Svcs		HR	20	165	3,300	1.010		Х			Х	Х
IT Hours - Planned Maintenance	Development Svcs		HR		165	0	1.010		Х		Х		Х
User Hours - New Development	Development Svcs					0						1	
User Hours - PTNE/OT	Development Svcs					0						į	
Contractor Professional Services	Development Svcs					0							
PC System - Acquisition	Hardware				687	0				Ì			
PC System - Maintenance	Hardware				2,936	0						l	
Notebook - Acquisition	Hardware				1,115	0				İ			
Notebook - Maintenance	Hardware				3,024	0				İ			
Barcode Scanner/Printer bundle -												1	1
Acquisition	Hardware				1,421	0				<u> </u>		<u> </u>	<u>i</u>
Tablet Notebook - Maintenance	Hardware				2,800	0						<u>. </u>	
Laserprinter - Acquisition	Hardware				1,432	0							
Laserprinter - Maintenance	Hardware				1,408	0						ł	1
PC Maintenance User Owned	Hardware				2,720	0						į	
Printer Maintenance User Owned	Hardware				1,264	0							
File Space (100GB)	Hardware		ANN		23	0						i '	
Package Software - Acquisition	Software		EA			0		Х				į	
Package Software - Maintenance	Software		EA			0			Χ	Х	Х	Х	Х
Business Objects Access	Software					0						1	,
Term Emulation SFTW-Acquisition	Software					0				İ		j	
Term Emulation SFTW-Maintenance	Software					0							
Server - Acquisition/Upgrade	Infrastructure				8,000	0						i	i
Server - Maintenance	Infrastructure				360	0				i			
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0				İ			
Server Sftwre - Maintenance	Infrastructure					0							i
Server Rack Mount	Infrastructure				400	0				Î		i	1
SQL Server Enterprise - Per Processor												<u>'</u>	
(4 cores) - Purchased Sept 2016-Aug												į	i
2017 - Includes Maintenance thru Aug										İ		!	i
2019	Infrastructure				24,533	0						<u> </u>	<u>i</u>
SQL Server Enterprise - Per Processor					-							<u>. </u>	
(4 cores) - Purchased Sept 2017-Aug										İ		!	
2018 - Includes Maintenance thru Aug										İ		; }	i l
2019	Infrastructure				20,759	0				<u> </u>		<u>'</u>	į

Date Printed: 12/14/2021

Date: 12/07/2021 Return on Investment Analysis

Cost Detail

Cost Description Category SQL Server Enterprise - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 SQL Server Enterprise - Maintenance, Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 infrastructure SQL Server Enterprise - Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2016-Aug 2017 - Includes Maintenance thru Aug 2019 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2016-Aug 2017 - Includes Maintenance thru Aug 2019 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2017-Aug 2018 - Infrastructure SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 SQL Server Standard Maintenance thru Aug 2019 SQL Server - Standard Maintenance Thru Aug 2019 SQL Server - Standard Maintenance Thru Aug 2019 SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru Aug 2019 Infrastructure SQL Server - Standard Maintenance Thru						1			Af	fects	s Pro	oiec	t RO	1?
Cost Description Category Source Desc Units Unit Total Cost Multiplier Y1 Y2 Y3 Y4 Y5 Y4 Y5 Y4 Y5 Y5 Y5		Project Cost	Budget Category/Funding	Unit		Rate per		Annual				,,		
(4 cores) - Purchased Sept 2018-Aug 2019 - Includes Maintenance thru Aug Infrastructure 16,995 0	Cost Description	Category		Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y 3	Y4	Y5	Y6
2019	SQL Server Enterprise - Per Processor												\equiv	
Infrastructure	(4 cores) - Purchased Sept 2018-Aug											ŀ	- 1	
SQL Server Enterprise - Maintenance, Per Processor (4 cores) - Sept 2019 Infrastructure	2019 - Includes Maintenance thru Aug											į	į	
Per Processor (4 cores) - Sept 2019 Infrastructure		Infrastructure				16,985	0					į	ŀ	
And Beyond Infrastructure A,218 0	SQL Server Enterprise - Maintenance,													
SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2016-Aug 2019 Infrastructure 6,398 0 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2017-Aug 2018 - Includes Maintenance thru Aug 2019 Infrastructure 5,414 0 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 Infrastructure 5,414 0 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 - Includes Maintenance thru Aug 2019 - Includes Maintenance thru Aug 2019 Infrastructure 5,414 0 SQL Server - Standard Maintenance Infrastructure 7,429 0 Infrastructure 8,429 0 SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 Infrastructure 7,100 0 SQL Server - Includes Year 1 Infrastructure 7,100 0 SQL Server - Includes Year 1 Infrastructure 7,100 0 SQL Server - Includes Year 1 Infrastructure 7,100 0 SQL Server - Includes Year 1 Infrastructure 7,100 0 SQL Server - Includes Year 1 Infrastructure 7,100 0 SQL Server - Year 2 and Beyond Infrastructure 7,100 0 SQL Server - Year 2 and Beyond Infrastructure 7,100 0 SQL Server - Year 2 and Beyond Infrastructure 7,100 0 SQL Server - Year 2 and Beyond Infrastructure 7,100 0 SQL Server - Year 2 and Beyond Infrastructure 7,100 0 SQL Server - Year 2 and Beyond Infrastructure 7,100 0 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and Beyond Infrastructure 7,100 SQL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year 2 and SqL Server - Year	Per Processor (4 cores) - Sept 2019											į	į	
(4 cores) - Purchased Sept 2016-Aug 2017 - Includes Maintenance thru Aug 2019 Infrastructure SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2017-Aug 2018 Infrastructure Infrastructure SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 Infrastructure SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 Infrastructure SQL Server - Standard Maintenance thru Aug 2019 Infrastructure SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Infrastructure Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure Infrastructure 701 0	and Beyond	Infrastructure				4,218	0					ĺ	İ	
2017 - Includes Maintenance thru Aug 2019 Infrastructure SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2017-Aug 2018 - Includes Maintenance thru Aug 2019 Infrastructure SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 Infrastructure SQL Server Standard Sept 2018-Aug 2019 Infrastructure Infrastructure Infrastructure 4,429 0 Infrastructure SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure Total O Infrastructure Total O Infrastructure Total O Infrastructure Total O	SQL Server Standard - Per Processor											i		
Infrastructure Cores Cor	(4 cores) - Purchased Sept 2016-Aug											i	i	
SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2017-Aug 2018 - Includes Maintenance thru Aug 2019 Infrastructure 5,414 0 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 - Includes Maintenance thru Aug 2019 Infrastructure 4,429 0 Infrastructure 5,2414 0 SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 Infrastructure 1,100 0 Infrastructure 1,100 0 SQL Server - Includes Year 1 Maintenance Infrastructure 1,100 0 Infrastructure 3,506 0 Single/Dual Core - Includes Year 1 Meintenance Infrastructure 701 0 Infrastructure 701 0	2017 - Includes Maintenance thru Aug											ĺ	İ	
(4 cores) - Purchased Sept 2017-Aug 2018 - Includes Maintenance thru Aug 2019 Infrastructure 5,414 0 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 - Includes Maintenance thru Aug 2019 - Includes Maintenance thru Aug 2019 SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Infrastructure 1,100 0 Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure 3,506 0 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0		Infrastructure				6,398	0					į		
2018 - Includes Maintenance thru Aug 2019 Infrastructure 5,414 0 SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 Infrastructure 4,429 0 SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Infrastructure 1,100 0 Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure 3,506 0 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	SQL Server Standard - Per Processor											i		
2019	(4 cores) - Purchased Sept 2017-Aug											į	į	
SQL Server Standard - Per Processor (4 cores) - Purchased Sept 2018-Aug 2019 - Includes Maintenance thru Aug 2019 Infrastructure 4,429 0 SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Infrastructure 1,100 0 Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure 3,506 0 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	2018 - Includes Maintenance thru Aug											ĺ	İ	
(4 cores) - Purchased Sept 2018-Aug 2019 - Includes Maintenance thru Aug 2019 Infrastructure SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Infrastructure Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	2019	Infrastructure				5,414	0					į		
2019 - Includes Maintenance thru Aug 2019	SQL Server Standard - Per Processor											i		
2019 Infrastructure 4,429 0 SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Infrastructure 1,100 0 Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure 3,506 0 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	(4 cores) - Purchased Sept 2018-Aug										i	į	į	
SQL Server - Standard Maintenance, Per Processor (4 cores) - Sept 2019 and Beyond Infrastructure 1,100 0 Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure 3,506 0 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	2019 - Includes Maintenance thru Aug											į		
Per Processor (4 cores) - Sept 2019 and Beyond Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure Infrastructure 3,506 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	· -	Infrastructure				4,429	0					i	i	
and Beyond Infrastructure 1,100 0												ĺ	ĺ	
Websphere Basic Per Processor Single/Dual Core - Includes Year 1 Maintenance Infrastructure Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0												į		
Single/Dual Core - Includes Year 1 Maintenance Infrastructure 3,506 0 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0		Infrastructure				1,100	0					į		
Maintenance Infrastructure 3,506 0 Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0												ĺ	ĺ	
Websphere Basic Per Processor Single/Dual Core - Year 2 and Beyond Infrastructure 701 0												į	į	
Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	Maintenance I	Infrastructure				3,506	0					į		
Single/Dual Core - Year 2 and Beyond Infrastructure 701 0	l											į		
						70.4						ĺ	ĺ	
		intrastructure				701	U			ļ		į	<u></u> į	
Websphere ND Per Processor												i	į	
Single/Dual Core - Includes Year 1		lf				40.400	0					į	į	
Maintenance Infrastructure 13,180 0	Maintenance	intrastructure				13,180	U					— į		_
Websphere ND Per Processor	Websphere ND Per Processor											į	į	
Single/Dual Core - Year 2 and Beyond Infrastructure 2,635 0		Infrastructure				2 635	n					į		
SSL Certificate Infrastructure 845 0	•											- i	 i	
Internet Access Infrastructure 180 0												Ì		
Imperva Web Application Firewall		astrastars				130	<u>_</u>					- 		-
(External Web Applications Only) Infrastructure ANN 500 0		Infrastructure		ANN		500	n					į	į	

Return on Investment Analysis

Cost Detail

								Aff	ect	s Pro	oiec	t RO	 ?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual				,		
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
App Code Directories on Consolidated								i		\Box	T	一	
IIS Server (Virtual)	Infrastructure		ANN		415	0				. !	ļ	į	
Database (5 GB) on Consolidated SQL								İ			i		
Instance Server	Infrastructure		ANN		930	0				ı	İ	İ	
Database Instance (125 GB DB) on													
Consolidated SQL Server	Infrastructure		ANN		2,395	0		li		, i	į	į	
Database SQL Maint Server	Infrastructure		ANN		834	0				i i			
Database SQL Server Physical	Infrastructure		ANN		19,158	0		į			i	i	
DB Maintenance (Annual Cycle \$610)	Infrastructure		ANN		610	0		l				i	
DB Maintenance (Semi-Annual Cycle										i i			
\$1220)	Infrastructure		ANN		1,220	0				ı	İ	İ	
DB Maintenance (Semi-Annual Cycle													
\$2440)	Infrastructure		ANN		2,440	0				: !	i	į	
Dedicated Virtual Server	Infrastructure		ANN		4,150	0		Î			Î		
DB Instance Setup	Infrastructure				976	0		i			Ī		
DBA MS SQL Database Creation on								l					
Exisitng Instance	Infrastructure				366	0		li		ı İ	i	į	
								Ì		i [
Extra Small - 2 Core 8GB RAM, 500GB										. !	į	ļ	
Drive, 10 GB NIC - Cloud/Virtual = \$601										ı İ	į	į	
On Premise Physical Server = N/A	Infrastructure		ANN			0		li		ıİ	į	į	
								į			i	i	
Small - 4 Core 16GB RAM, 500GB										: !	i	į	
Drive, 10 GB NIC - Cloud/Virtual = \$951								li		ıİ	į	į	
On Premise Physical Server = \$9,288	Infrastructure		ANN			0				ı İ	İ	į	
Medium - 8 Core 32GB RAM, 500GB													
Drive, 10 GB NIC - Cloud/Virtual =										: !	i	į	
\$1,702 On Premise Physical Server =								li		ıİ	į	į	
\$9,751	Infrastructure		ANN			0		li		ı İ	İ	İ	
Large - 16 Core 64GB RAM, 500GB													
Drive, 10 GB NIC - Cloud/Virtual =										ı İ	į	į	
\$3,167 On Premise Physical Server =										, !	į	į	
\$10,446	Infrastructure		ANN			0				į l	İ	į	
Extra Large - 40 Core 160GB RAM,											İ	Ī	
500GB Drive, 10 GB NIC - Cloud/Virtual								li		. !	į	į	
= \$7,564 On Premise Physical Server =								li		i i	į	į	
\$12,906	Infrastructure		ANN			0				<u>.</u>	ĺ	į	

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Return on Investment Analysis

Cost Detail

	Potential Cost Extensions								
	Project Cost	Totalian God Extendion							
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6		
IT Hours - New Development	Development Svcs	48,015.00							
IT Hours - System Maintenance	Development Svcs		3,333.00	3,366.33	3,399.99	3,433.99	3,468.33		
IT Hours - Customer Support	Development Svcs		3,333.00	3,366.33	3,399.99	3,433.99	3,468.33		
IT Hours - Planned Maintenance	Development Svcs		0.00		0.00		0.00		
User Hours - New Development	Development Svcs								
User Hours - PTNE/OT	Development Svcs								
Contractor Professional Services	Development Svcs								
PC System - Acquisition	Hardware								
PC System - Maintenance	Hardware								
Notebook - Acquisition	Hardware								
Notebook - Maintenance	Hardware								
Barcode Scanner/Printer bundle -									
Acquisition	Hardware	4,614.00							
Tablet Notebook - Maintenance	Hardware	,							
Laserprinter - Acquisition	Hardware								
Laserprinter - Maintenance	Hardware								
PC Maintenance User Owned	Hardware								
Printer Maintenance User Owned	Hardware								
File Space (100GB)	Hardware								
Package Software - Acquisition	Software	13,335.00							
Package Software - Maintenance	Software	·	14,000.00	14,702.00	15,437.00	16,202.00	0.00		
Business Objects Access	Software			,		·			
Term Emulation SFTW-Acquisition	Software								
Term Emulation SFTW-Maintenance	Software								
Server - Acquisition/Upgrade	Infrastructure								
Server - Maintenance	Infrastructure								
Server Sftwre - Acquisition/Upgrade	Infrastructure								
Server Sftwre - Maintenance	Infrastructure								
Server Rack Mount	Infrastructure								
SQL Server Enterprise - Per Processor									
(4 cores) - Purchased Sept 2016-Aug									
2017 - Includes Maintenance thru Aug									
2019	Infrastructure								
SQL Server Enterprise - Per Processor									
(4 cores) - Purchased Sept 2017-Aug									
2018 - Includes Maintenance thru Aug									
2019	Infrastructure								

Return on Investment Analysis

Cost Detail

		Potential Cost Extensions						
	Project Cost]					
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6	
SQL Server Enterprise - Per Processor			!					
(4 cores) - Purchased Sept 2018-Aug			İ					
2019 - Includes Maintenance thru Aug			Ì		i ! !			
2019	Infrastructure							
SQL Server Enterprise - Maintenance,			i !		i !			
Per Processor (4 cores) - Sept 2019			į	İ				
and Beyond	Infrastructure		Ì		i I			
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2016-Aug			İ	•		 		
2017 - Includes Maintenance thru Aug								
2019	Infrastructure		!		! ! !	 		
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2017-Aug			ļ	•		! !		
2018 - Includes Maintenance thru Aug			į	İ				
2019	Infrastructure		Ì		i I			
SQL Server Standard - Per Processor								
(4 cores) - Purchased Sept 2018-Aug			ļ	•	! !			
2019 - Includes Maintenance thru Aug			Ì		i ! !			
2019	Infrastructure				! ! !] 	
SQL Server - Standard Maintenance,			į		i !			
Per Processor (4 cores) - Sept 2019			į	İ				
and Beyond	Infrastructure		!		! ! !	 		
Websphere Basic Per Processor								
Single/Dual Core - Includes Year 1			•	•		i !		
Maintenance	Infrastructure		ļ	ļ	į			
Websphere Basic Per Processor			•	•		i !		
Single/Dual Core - Year 2 and Beyond	Infrastructure		į	į	į			
Websphere ND Per Processor			Į.	!	<u> </u>	1 1 1		
Single/Dual Core - Includes Year 1								
Maintenance	Infrastructure		•	•	! !			
						î ! !		
Websphere ND Per Processor								
Single/Dual Core - Year 2 and Beyond	Infrastructure		İ		İ		į	
SSL Certificate	Infrastructure							
Internet Access	Infrastructure			ļ				
Imperva Web Application Firewall			İ					
(External Web Applications Only)	Infrastructure		İ					

Return on Investment Analysis

Cost Detail

	Potential Cost Extensions						
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6
App Code Directories on Consolidated	1						<u> </u>
IIS Server (Virtual)	Infrastructure						
Database (5 GB) on Consolidated SQL			<u> </u>	!	<u> </u>		<u> </u>
Instance Server	Infrastructure						
Database Instance (125 GB DB) on							
Consolidated SQL Server	Infrastructure		!		! ! !	 	! ! !
Database SQL Maint Server	Infrastructure					I I	
Database SQL Server Physical	Infrastructure		<u> </u>				
DB Maintenance (Annual Cycle \$610)	Infrastructure		İ				
DB Maintenance (Semi-Annual Cycle			<u> </u>	!	<u> </u>		<u> </u>
\$1220)	Infrastructure					! !	
DB Maintenance (Semi-Annual Cycle							
\$2440)	Infrastructure			i !	i I		
Dedicated Virtual Server	Infrastructure						
DB Instance Setup	Infrastructure		<u> </u>				
DBA MS SQL Database Creation on							
Exisitng Instance	Infrastructure		!	!	! !	 	! !
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = N/A	Infrastructure						
Small - 4 Core 16GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$951 On Premise Physical Server = \$9,288	Infrastructure						
Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$1,702 On Premise Physical Server = \$9,751	Infrastructure						
Large - 16 Core 64GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server = \$10,446	Infrastructure						
Extra Large - 40 Core 160GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server = \$12,906	Infrastructure						

Date: 12/07/2021

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	48,015						48,015
IT Hours - System Maintenance		3,333	3,366	3,400	3,434	3,468	17,002
IT Hours - Customer Support		3,333	3,366	3,400	3,434	3,468	17,002
IT Hours - Planned Maintenance							•
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	48,015	6,666	6,733	6,800	6,868	6,937	82,018
Hardware:	,	,	,	,		,	•
Hardware Subtotal:							
Software:							
Package Software - Acquisition	13,335						13,335
Package Software - Maintenance	10,000	14,000	14,702	15,437	16,202		60,341
r ackage conware - Maintenance		14,000	14,702	10,407	10,202		00,341
Software Subtotal:	13,335	14,000	14,702	15,437	16,202		73,676
Infrastructure:	13,333	14,000	14,702	13,431	10,202		73,070
inirastructure.							
Infrastructure Subtotal							
Training:							
Tue in in a Coulet et al.							
Training Subtotal:							
Other:							
Barcode Scanner/Printer bundle -							
Acquisition	4,614						4,614
Other Subtotal:	4,614						4,614
Costs Total:	65,964	20,666	21,435	22,237	23,070	6,937	160,308

Date: 12/07/2021

Return on Investment Analysis

Assumptions

12-Sep-21 Bar code scanner to be included 12-Sep-21 Printer to be included	Date	Assumption Description
12-Sep-21 Printer to be included	12-Sep-21	Bar code scanner to be included
	12-Sep-21	Printer to be included

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