Project Name: CLEMIS VPN RFP & Implementation Project ID: D43183PN

Leadership Group:	CLEMIS				
Department: Inform	ation Technology		Division: C	CLEMIS	
Project Sponsor: Ji	m Manning	Date Requeste	d: 5/10/2022	PM Cı	ıstomer No. 183
Request Type:	New Developmen	<u>t</u> Er	hancement	Custo	omer Support
	Planned Sys	tem Maintenand	e or Upgrade)	
IT Team Name: FRM	MS - Biometrics		IT Team No): 4	
Project Manager/Le	eader: Brian Smith	/ Rob Carroll			
Account Number: 63500	Account Description:	CLEMIS Fu	nd	Custo Name:	_
Grant Funded?	Yes <u>No</u>	Ma	ndate?	Yes <u>No</u>	
		Ма	ndate Source) :	

Project Goal

To research and implement a VPN so that CLEMIS can reduce costs and increase service levels to its member agencies.

Business Objective

To evaluate new VPN technologies and possibly implement them which would require new infrastructure

Major Deliverables

- Detailed Project Plan with WBS
- Business Requirements Documents
- Functional testing
- Implementation Plan
- Training/User Manual
- Service Level Agreement
- Disaster Recovery Toolkit
- Service Center Knowledge Documents

Approach

- Develop Detailed Project Plans, As Needed
- Create RFP
- Document Business Requirements
- Assess Hardware and Software Requirements
- Develop Implementation Plans
- Develop User Acceptance Test Plans
- Test New System/Data
- Develop User Training, As Needed

Project Name: CLEMIS VPN RFP & Implementation Project ID: D43183PN

- Develop User Documentation, SLA, Disaster Recovery Toolkit, Service Center Knowledge Documents
- Train/Notify Users of New System/Data
- Conduct Change Control
- Release New System/Data into Production

Research & Analysis

Research Service Recommendation (select one)

Research not Required

Benefits

See Return on Investment (ROI) Analysis Document

Impact

Number of Users 2500 users

Divisions CLEMIS

Leadership Groups CLEMIS

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.

Project Name: CLEMIS VPN RFP & Implementation Project ID: D43183PN Other Staffing: additional staffing will be available as follows: Role: **Name Hours per Day** Jim Manning Project Sponsor: As Needed **Facilities Technical** • Assuming that we can reuse the current network. • Assuming that we can reuse modems, laptops, and antennas **Funding** Other **Priority** TBD **Constraints** Implementation of the upgraded application is reliant on each agency's schedule. **Exclusions**

Form Rev. 03/15/2022

Project Name: CLEMIS VPN RFP & Implementation Project ID: D43183PN

PROJECT PHASE AUTHORIZATION

Phase(s): All		
Total Estimated Application Services	Hours:	
Total Estimated Technical Systems	Hours: 224	
Total Estimated CLEMIS	Hours: 1,377	
Total Estimated Internal Services	Hours:	
IT Application Services Division Manage	r Approval:	Date:
IT Technical Systems Division Manager	Approval:	Date:
IT CLEMIS Division Manager Approval:		Date:
IT Internal Services Division Manager Ap	pproval:	Date:
IT Management Approval:		
Approved:	Yes No	Date:
Reason:		
Project Sponsor Approval:		
Title:		Date:
P	PROJECT SUMMARY	

Authorized Development (see above)	Hours:	
Previously Authorized Development	Hours:	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 1,601	Cost: \$264,165

Project Name: CLEMIS VPN RFP & Implementation Project ID: D43183PN

PROJECT COMPLETION AUTHORIZATION

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

CLEMIS VPN RFP & Implementation - Size Estimate (+/- 10% to 50%)

1	Туре	ID	Task Name	Estimated
2				Hours
3	3	000000	PROJECT MANAGEMENT	352
4	Phase	200000	DEFINE BUSINESS REQUIREMENTS	72
5	Phase	300000	DESIGN SYSTEM ARCHITECTURE	88
6	Phase	500000	DEVELOP APPLICATION	704
7	Phase	600000	IMPLEMENTATION PHASE	270
8	Phase	800000	POST IMPLEMENTATION SUPPORT	115
9				1,601

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:	272,165	5,099	8,752	5,409	9,285	5,738	306,449
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	170,550	72,667	74,846	77,092	79,405	81,787	556,346
Infrastructure Subtotal	6,575	6,575	6,575	6,575	6,575	6,575	39,450
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	449,290	84,340	90,174	89,076	95,265	94,100	902,245
Annual Return on Investment	(449,290)	(84,340)	(90,174)	(89,076)	(95,265)	(94,100)	(902,245)
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	449,290	533,630	623,804	712,880	808,145	902,245	902,245
Cumulative Return on Investment	(449,290)	(533,630)	(623,804)	(712,880)	(808,145)	(902,245)	(902,245)
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?							NOTATBACK
Signatures:							
Benefits Reviewed By Project Sponsor				Date:			
Costs (including IT Resources) Reviewed By							
Information Technology Project Manager				Date:			

Return on Investment Analysis

Savings Detail

	Project Savings		Unit		Rate per		Annual
Benefit/Savings Description	Category	Budget Category/Funding Source	Desc	Units	Unit	Total Savings	Multiplier
Allows CJIS Network Access for							
	Intangible Benefit					0	
Increased connectivity uptime with							
application persistence. During							
network congestion or cellular signal							
loss or degradation a mobile VPN							
allows applications to continue running without the need to restart the computer							
	Intangible Benefit					0	
ог аррисацоп.	mangible benefit					0	
Allows for secure FIPS 140-2 compliant							
encryption in order to meet State of							
	Intangible Benefit						
Michigan and FBI CJIS compliance.	intangible benefit						
Improved performance through the use							
	Intangible Benefit					0	
or a additional mobile vi it methoric.	mangible Belleit					0	
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Return on Investment Analysis

Savings Detail

		Af	fect	s Pr	oje	ct R	OI?		Po	tential Savi	ngs Extensi	ons	
Daniel State of December 1	Project Savings									\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	V4	\ \v_=	\ \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\
Benefit/Savings Description	Category	Y1	Y2	Y3	Y4	Y5	¦ Y 6	Y1	Y2	Y3	Y4	Y5	Y6
Allows CJIS Network Access for	linka in milala. Dana efik					ļ				1		İ	ļ
Officers in the field. Increased connectivity uptime with	Intangible Benefit		_		<u> </u>	<u> </u>	1		-				
application persistence. During				ļ	į	Ì					1		
network congestion or cellular signal					ļ	-					1		
loss or degradation a mobile VPN				!	!	-	-			1			
allows applications to continue running				į	ļ	-			İ	ļ	İ	İ	ļ
without the need to restart the computer										•			
or application.	Intangible Benefit		<u> </u>		ļ_	!	<u> </u>				ļ		
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Allows for secure FIPS 140-2 compliant			ļ	ļ	ļ	-	İ		İ		-		
encryption in order to meet State of										•	1		
Michigan and FBI CJIS compliance.	Intangible Benefit		ļ	<u> </u>	ļ_	<u> </u>	<u> </u>				<u> </u>		
Improved performance through the use													<u> </u>
	Intangible Benefit				ŀ								
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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:							
Tarigino Boriona Gabietai.							
Cost Avoidance:							
Cost Avoidance Subtotal:							
Cost Avoidance Subtotal.							
Intangible Benefit:							
Allows CJIS Network Access for Officers in							
the field.							
Increased connectivity uptime with							
application persistence. During network							
congestion or cellular signal loss or							
degradation a mobile VPN allows							
applications to continue running without the							
need to restart the computer or application.							
Allows for secure FIPS 140-2 compliant							
encryption in order to meet State of Michigan							
and FBI CJIS compliance.							
Improved performance through the use of a dedicated mobile VPN network.							
dedicated mobile VPN network.							
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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
Savings Total:							

Return on Investment Analysis

Cost Detail

								Af	fect	s Pı	oje	ct R0	OI?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual		}			1	
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs			1,601	165	264,165	1.030	х	:	\Box	1	1	
IT Hours - System Maintenance	Development Svcs			10	165	1,650	1.030		Х	x	x	ļχ	х
IT Hours - Customer Support	Development Svcs			20	165	3,300	1.030		Х	x	х	x	Х
IT Hours - Planned Maintenance	Development Svcs			20	165	3,300	1.030			х		x	
User Hours - New Development	Development Svcs					0			İ				
User Hours - PTNE/OT	Development Svcs					0			İ	İ	Ī		
Contractor Professional Services	Development Svcs			40	200	8,000		х	ĺ	1	Î	ĺ	
PC System - Acquisition	Hardware				639	0						-	[]
PC System - Maintenance	Hardware				3,352	0							
Laptop - Acquisition	Hardware				922	0				1	1	!	[
Laptop - Maintenance	Hardware				3,352	0			!		1		
Tablet Notebook - Acquisition	Hardware				1,069	0			1	1		ĺ	
Tablet Notebook - Maintenance	Hardware				3,352	0			İ	1	1	İ	
File Space (100GB)	Hardware		ANN		23	0						1	
Package Software - Acquisition	Software				1	100,000		х	!	!	ļ	1	
Package Software - Maintenance	Software				1	70,550	1.030	х	Х	х	х	x	х
Business Objects Access	Software					0			İ	İ	İ	İ	
Term Emulation SFTW-Acquisition	Software					0			1			1	
Term Emulation SFTW-Maintenance	Software					0				1	1	1	
Oracle Enterprise Software Purchase -										!	1	1	
Per Processor (4 Cores) - Requires								l	1		1		
Annual Support Below	Infrastructure				42,280	0		l	į	İ	1	į	
Oracle Enterprise Software Support -													
Per Processor (4 Cores)	Infrastructure				9,293	0	1.030	l					
SQL Server Enterprise Software					-				!		1	!	
Purchase - Per Processor (4 cores) -								l			1		
Purchased Sept 2019-Aug 2020 -								l	İ	ĺ	İ	İ	
Includes Support thru Aug 2022	Infrastructure				16,985	0		l	Ì	1		İ	
SQL Server Enterprise Software					-						1	1	
Purchase - Per Processor (4 cores) -										1			
Purchased Sept 2020-Aug 2021 -											1		
Includes Support thru Aug 2022	Infrastructure				12,724	0				İ	1	1	

Return on Investment Analysis

Cost Detail

								Af	fect	s Pro	ject	ROI?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual		!		1	
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5 Y6
SQL Server Enterprise Software									:		-	
Purchase - Per Processor (4 cores) -									ļ		- 1	-
Purchased Sept 2021-Aug 2022 -												-
Includes Support thru Aug 2022	Infrastructure				8,463	0			į		- 1	
SQL Server Enterprise - Support, Per												
Processor (4 cores) - Sept 2022 and									ĺ			İ
Beyond	Infrastructure				4,261	0						Ì
SQL Server Standard Software									[
Purchase - Per Processor (4 cores) -									į		l	
Purchased Sept 2019-Aug 2020 -									İ		ı	İ
Includes Support thru Aug 2022	Infrastructure				4,429	0						İ
SQL Server Standard Software											- 1	
Purchase - Per Processor (4 cores) -												-
Purchased Sept 2020-Aug 2021 -									į		- 1	
Includes Support thru Aug 2022	Infrastructure				3,317	0						İ
SQL Server Standard Software									İ			-
Purchase - Per Processor (4 cores) -											- 1	-
Purchased Sept 2021-Aug 2022 -												
Includes Support thru Aug 2022	Infrastructure				2,205	0			į			
SQL Server - Standard Support, Per									İ		ı	İ
Processor (4 cores) - Sept 2022 and											- 1	
Beyond	Infrastructure				1,112	0					- 1	
Websphere Basic Per Processor												
Single/Dual Core - Includes Year 1												İ
Maintenance	Infrastructure				3,769	0			<u> </u>			
									!			
Websphere Basic Per Processor									į		ı	
Single/Dual Core - Year 2 and Beyond	Infrastructure				754	0			į .		i	
Websphere ND Per Processor									-			Ì
Single/Dual Core - Includes Year 1											- 1	-
Maintenance	Infrastructure				14,170	0			<u> </u>		!	
l									İ		j	j
Websphere ND Per Processor	<u> </u>										ļ	ļ
Single/Dual Core - Year 2 and Beyond					2,835	0						
SSL Certificate	Infrastructure			2	910	1,820		Х	Х	X	x ¦	x x

Return on Investment Analysis

Cost Detail

								Af	fect	s Pr	ojec	t RC) ?
Ocat Decembring	Project Cost	Budget Category/Funding	Unit	11!4	Rate per	T-4-1 04	Annual	.,	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	\ \ \ \	\ \ \		V C
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y 1	12	¥3	14	Y5	Y 6
Internet Access	Infrastructure				190	0							
Imperva Web Application Firewall										ļ	ļ	1 1	
11 - 37	Infrastructure		ANN		500	0					į		ļ
App Code Directories on Consolidated										į	į		
IIS Server (Virtual)	Infrastructure		ANN		446	0				į	į		
Extra Small - 2 Core 8GB RAM, 500GB													
Drive, 10 GB NIC - Cloud/Virtual =												1 1	
\$601 On Premise Physical Server =													
\$2,735	Infrastructure		ANN			0							
Small - 4 Core 16GB RAM, 500GB									İ	İ	į	1 1	
Drive, 10 GB NIC - Cloud/Virtual =													
\$951 On Premise Physical Server =													
\$3,057	Infrastructure		ANN	5	951	4,755		х	Х	х	х	х	Х
Medium - 8 Core 32GB RAM, 500GB											į		
Drive, 10 GB NIC - Cloud/Virtual =										İ	İ		
\$1,702 On Premise Physical Server =											ļ		
\$8,715	Infrastructure		ANN			0							
Large - 16 Core 64GB RAM, 500GB										į		1 1	
Drive, 10 GB NIC - Cloud/Virtual =										İ	į		
\$3,167 On Premise Physical Server =										İ	į		
\$10,758	Infrastructure		ANN			0							
Extra Large - 40 Core 192GB RAM,										ļ		1 1	
500GB Drive, 10 GB NIC -									ŀ	İ	İ		
Cloud/Virtual = \$7,564 On Premise									İ	İ	į		
Physical Server = \$24,137	Infrastructure		ANN			0			į Į	İ	<u> </u>	Ш	

Return on Investment Analysis

Cost Detail

		Potential Cost Extensions								
	Project Cost									
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6			
IT Hours - New Development	Development Svcs	264,165.00								
IT Hours - System Maintenance	Development Svcs		1,699.50	1,750.49	1,803.00	1,857.09	1,912.80			
IT Hours - Customer Support	Development Svcs		3,399.00	3,500.97	3,606.00	3,714.18	3,825.60			
IT Hours - Planned Maintenance	Development Svcs			3,500.97		3,714.18				
User Hours - New Development	Development Svcs									
User Hours - PTNE/OT	Development Svcs									
Contractor Professional Services	Development Svcs	8,000.00								
PC System - Acquisition	Hardware									
PC System - Maintenance	Hardware									
Laptop - Acquisition	Hardware									
Laptop - Maintenance	Hardware									
Tablet Notebook - Acquisition	Hardware									
Tablet Notebook - Maintenance	Hardware									
File Space (100GB)	Hardware									
Package Software - Acquisition	Software	100,000.00								
Package Software - Maintenance	Software	70,550.00	72,666.50	74,846.50	77,091.89	79,404.65	81,786.79			
Business Objects Access	Software									
Term Emulation SFTW-Acquisition	Software									
Term Emulation SFTW-Maintenance	Software									
Oracle Enterprise Software Purchase -										
Per Processor (4 Cores) - Requires										
Annual Support Below	Infrastructure									
Oracle Enterprise Software Support -										
Per Processor (4 Cores)	Infrastructure									
SQL Server Enterprise Software										
Purchase - Per Processor (4 cores) -										
Purchased Sept 2019-Aug 2020 -										
Includes Support thru Aug 2022	Infrastructure									
SQL Server Enterprise Software										
Purchase - Per Processor (4 cores) -										
Purchased Sept 2020-Aug 2021 -										
Includes Support thru Aug 2022	Infrastructure									

REV: February 22, 2022

Return on Investment Analysis

Cost Detail

	Potential Cost Extensions										
	Project Cost										
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6				
SQL Server Enterprise Software											
Purchase - Per Processor (4 cores) -											
Purchased Sept 2021-Aug 2022 -											
Includes Support thru Aug 2022	Infrastructure										
SQL Server Enterprise - Support, Per											
Processor (4 cores) - Sept 2022 and											
Beyond	Infrastructure										
SQL Server Standard Software											
Purchase - Per Processor (4 cores) -											
Purchased Sept 2019-Aug 2020 -											
Includes Support thru Aug 2022	Infrastructure										
SQL Server Standard Software											
Purchase - Per Processor (4 cores) -											
Purchased Sept 2020-Aug 2021 -											
Includes Support thru Aug 2022	Infrastructure										
SQL Server Standard Software											
Purchase - Per Processor (4 cores) -											
Purchased Sept 2021-Aug 2022 -											
Includes Support thru Aug 2022	Infrastructure										
SQL Server - Standard Support, Per											
Processor (4 cores) - Sept 2022 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										
Websphere ND Per Processor											
Single/Dual Core - Includes Year 1											
Maintenance	Infrastructure										
Websphere ND Per Processor											
Single/Dual Core - Year 2 and Beyond											
SSL Certificate	Infrastructure	1,820.00	1,820.00	1,820.00	1,820.00	1,820.00	1,820.00				

Return on Investment Analysis

Cost Detail

		Potential Cost Extensions									
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6				
Internet Access	Infrastructure										
Imperva Web Application Firewall (External Web Applications Only)	Infrastructure										
App Code Directories on Consolidated IIS Server (Virtual)	Infrastructure										
Extra Small - 2 Core 8GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$601 On Premise Physical Server = \$2,735	Infrastructure										
Small - 4 Core 16GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$951 On Premise Physical Server =	Infrastructure	4.755.00	4 755 00	4.755.00	4.755.00	4.755.00	4.755.00				
\$3,057 Medium - 8 Core 32GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$1,702 On Premise Physical Server = \$8,715	Infrastructure	4,755.00	4,755.00	4,755.00	4,755.00	4,755.00	4,755.00				
Large - 16 Core 64GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$3,167 On Premise Physical Server = \$10,758	Infrastructure										
Extra Large - 40 Core 192GB RAM, 500GB Drive, 10 GB NIC - Cloud/Virtual = \$7,564 On Premise Physical Server = \$24,137	Infrastructure										

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	264,165						264,165
IT Hours - System Maintenance		1,700	1,750	1,803	1,857	1,913	9,023
IT Hours - Customer Support		3,399	3,501	3,606	3,714	3,826	18,046
IT Hours - Planned Maintenance			3,501		3,714		7,215
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services	8,000						8,000
Development Services Subtotal:	272,165	5,099	8,752	5,409	9,285	5,738	306,449
Hardware:							
Hardware Subtotal: Software:							
Package Software - Acquisition	100,000						100,000
Package Software - Maintenance	70,550	72,667	74,846	77,092	79,405	81,787	456,346
Software Subtotal:	170,550	72,667	74,846	77,092	79,405	81,787	556,346
Infrastructure:							
SSL Certificate	1,820	1,820	1,820	1,820	1,820	1,820	10,920
Small - 4 Core 16GB RAM, 500GB Drive, 10							
GB NIC - Cloud/Virtual = \$951 On Premise							
Physical Server = \$3,057	4,755	4,755	4,755	4,755	4,755	4,755	28,530
Infrastructure Subtotal	6,575	6,575	6,575	6,575	6,575	6,575	39,450
Training:							

Return on Investment Analysis

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Training Subtotal:							
Other:							
Other Subtotal:							
Costs Total:	449,290	84,340	90,174	89,076	95,265	94,100	902,245

Date: 06/10/2022

Return on Investment Analysis

Assumptions

Date	Assumption Description
01-Jun-22	Assumes 5 VMs will be needed
01-Jun-22	Assumes 5 hours to retire old servers
	Assumes 2 URLs will need to be registered
	Assumes Security Scan 50 hours (10 hours * 5 servers)
	Assumes the current network structure will be reused and will setup the new system in parrall to the old system.
	Implementation of the upgraded application is reliant on each agency's schedule.
01-Jun-22	Assumes that CLEMIS can reuse modems, laptops, and antennas.
	Software Maintenance is estimated at \$70,550 per year
	Software Acquisition estimated at \$100,000
01-Jun-22	Professional Services to assist with new software acquisition 40 hours at \$200 per hour

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