Project Name: OCME Dictation System Replacement Project ID: DJ0176DS

Leadership Group: Cou	rts					
Department: Public Serv	/ices			Division: Medica	l Examiner	
Project Sponsor: Casim	ir Miarka	Date Requ	iested	d: 3/10/2020	PM Custom	er No. 176
Request Type: New Development Planned System M.		<u>oment</u>		Enhancemen	t Cus	stomer Support
	Planned Sys	tem Mainte	nance	e or Upgrade		
IT Team Name: eCommo	erce			IT Team No: J		
Project Manager/Leader	: TBD					
Account 87202 Number:	Account Description:		l Exar	n-Cust Supp	Customer Name:	Medical Examiner
Grant Funded? Yes	<u>No</u>		Mar	ndate?	Yes	<u>No</u>
			Mar	ndate Source:		

## **Project Goal**

To replace the existing dictation devices and transcription method with a new and improved transcription system, so that the OCME doctors have a reliable means to dictate autopsy notes, an efficient means for the clerks to access the recordings for transcriptions, a secure method of storing the recordings, as well as ensure the integrity of the recorded data.

# **Business Objective**

To gain efficiencies by dictated autopsy recordings being immediately available for clerk transcriptions rather than transfer of cassette tapes, the elimination of re-work to re-record autopsy notes due to device or cassette failure, and cost savings for the repair of devices and purchase of cassette tapes.

#### **Major Deliverables**

- Detailed Project Plan
- Application and/or System Requirements
- End User Hardware and Software Requirements Document
- Develop an RFP
- Vendor Selection
- Vendor SOW and Contract
- Technical Design Document
- Technical Architecture Diagram
- Training Plan
- User Acceptance Test Plan
- Implementation Plan
- Training/User Manual(s)

Project Name: OCME Dictation System Replacement Project ID: DJ0176DS

- Service Level Agreement
- Disaster Recovery Toolkit
- Service Center Knowledge Documents

#### Approach

- Develop Detailed Project Plan
- Review current business process and conduct needs assessment with customer, ensuring current manual processes are refined and automated.
- Document system requirements
- Develop an RFP
- Select vendor based on vendor demonstrations
- Collaborate with vendor on contract and SOW
- Determine and document system architecture and diagram
- Assess User Hardware and Software Requirements
- Conduct Tech Review
- Order hardware and software if needed
- Develop Implementation Plan
- Develop new system/ Identify and configure vendor software
- Develop User Acceptance Test Plan
- Test new system
- Acquire User Acceptance Sign off
- Conduct Change Control
- Develop User Documentation, SLA, Disaster Recovery Toolkit, Service Center Knowledge Documents
- Train users on new system
- Release new system into production

# Research & Analysis

**Gartner Research Recommendation** 

Note: Research was conducted, based on the requirement for ME doctors to record autopsies in their native (non-English) language, if possible. A non-exhaustive list of 11 vendor solutions were provided, which were more on the high-end of the EHR.

Recommendations to find an appropriate vendor: Healthcare provider CIOs planning to implement NLP technologies to digitally optimize and modernize their electronic health record and digital care delivery program:

 Pursue applications with a proven return on investment, such as computerassisted coding and real-time transcription, to put your organization on the path

Project Name: OCME Dictation System Replacement Project ID: DJ0176DS

to adopting NLP.

- Determine whether the NLP system will be developed in-house or through a thirdparty vendor solution. For each NLP use case, assess the current maturity of the commercial market against in-house capabilities and the scale of the implementation required.
- Resolve and protect against issues of ethics, legislation, compliance and adoption by ensuring appropriate governance for NLP implementations that is founded on a comprehensive Al governance framework.

### **Benefits**

See Return on Investment (ROI) Analysis Document

### **Impact**

**Number of Users** 12 - Only doctors and clerical use

**Divisions** Medical Examiner

**Leadership Groups** Courts

# **Risk**

**Business Environment** Medium – Project requires some changes to existing business

processes.

**Technical Environment** Medium – previously implemented technologies, new

requirements.

Project Name: OCME Dictation System Replacement Project ID: DJ0176DS

Ass	um	ptic	ons

**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: <u>Name</u> <u>Hours per Day</u>

Project Sponsor: Casimir Miarka As needed

#### **Facilities**

None

#### **Technical**

None

# **Funding**

• IT

#### Other

None

### **Priority**

•

# **Constraints**

 Solution must integrate with a foot pedal system, for hands-free play, rewind and fast forwarding of the recordings, ability to use a headset.

# **Exclusions**

None

Project Name: OCME Dictation System Replacement Project ID: DJ0176DS

#### PROJECT PHASE AUTHORIZATION

Phase(s):		
Total Estimated Application Services	Hours: 977	
Total Estimated Technical Systems	Hours: 164	
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:

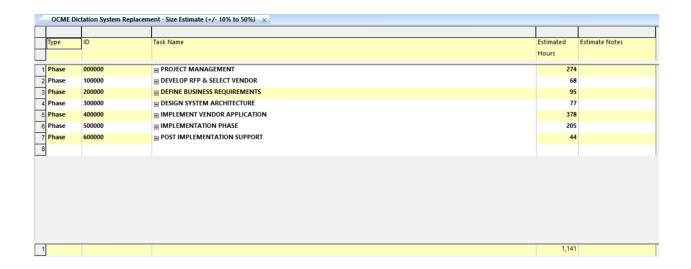
#### PROJECT SUMMARY

Authorized Development (see above)	Hours: 1,141	
Preliminary Estimated Development for Future Phases	Hours:	
Grand Total Estimated Development	Hours: 1,141	Cost: \$188,265

Project Name: OCME Dictation System Replacement Project ID: DJ0176DS

#### PROJECT COMPLETION AUTHORIZATION

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



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:	1,746	1,771	1,798	1,824	1,852	1,881	10,872
Costs:						·	,
Development Services Subtotal:	193,215	9,166	5,049	9,350	5,151	9,538	231,469
Hardware Subtotal:	0	0	0	0	0	0	0
Software Subtotal:	2,690	100	101	102	103	104	3,200
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	1,746	1,771	1,798	1,824	1,852	1,881	10,872
Annual Total Costs	195,905	9,266	5,150	9,452	5,254	9,642	234,669
Annual Return on Investment	(194,159)	(7,494)	(3,353)	(7,628)	(3,402)	(7,761)	(223,797)
Annual Costs/Savings Ratio	11220.20%	523.08%	286.53%	518.07%	283.67%	512.67%	(===,:=:)
Project Cumulative Statistics:							
Cumulative Total Savings	1,746	3,517	5,315	7,139	8,992	10,872	10,872
Cumulative Total Costs	195,905	205,170	210,321	219,773	225,027	234,669	234,669
Cumulative Return on Investment	(194,159)	(201,653)	(205,006)	(212,634)	(216,035)	(223,797)	(223,797)
Cumulative Cost/Savings Ratio	11220.20%	5833.05%	3957.19%	3078.33%	2502.65%	2158.42%	2158.42%
Year Positive Payback Achieved							NO PAYBACK
State or Federal Mandate?							TO TATIBATE
Signatures:							
Benefits Reviewed By Project Sponsor				Date:			
Costs (including IT Resources) Reviewed By Information Technology Project Manager	-			Date:			

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
Repair or Replacement of devices	Cost Avoidance	11-units total 3-repaired annually	EA	3	300	900	1.000
Rework from lost transcriptions due to							
hardware failure.	Cost Avoidance	hours of doctors' time 2hrs 3x per year	EA	6	141	846	1.030
Inability to save transcription on server	Intangible Benefit					0	
·						0	
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Return on Investment Analysis

#### Savings Detail

		Af	fect	s P	roje	ct F	श	l?		Po	tential Savin	ngs Extension	ns	
Benefit/Savings Description	Project Savings Category	Y1	Y2	Y3	Y4	Y!	5 \	Y6	Y1	Y2	Y3	Y4	Y5	Y6
Repair or Replacement of devices	Cost Avoidance	Х							900.00	900.00	900.00	900.00	900.00	900
Rework from lost transcriptions due to			1	1	1		- [			ļ				
hardware failure.	Cost Avoidance	Х	Χ	Х	Х	Х	×	X	846.00	871.38	897.52	924.45	952.18	981
Inability to save transcription on server	Intangible Benefit							_						
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### 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:							
Repair or Replacement of devices	900	900	900	900	900	900	5,400
Rework from lost transcriptions due to							0,.00
hardware failure.	846	871	898	924	952	981	5,472
		-					-,
Cost Avoidance Subtotal:	1,746	1,771	1,798	1,824	1,852	1,881	10,872
Intangible Benefit:							
Inability to save transcription on server							
Savings Total:	1,746	1,771	1,798	1,824	1,852	1,881	10,872

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REV: May 21, 2018

Return on Investment Analysis

#### Cost Detail

								Af	fect	s Pr	oje	ct R	OI?
	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
IT Hours - New Development	Development Svcs		HR	1,141	165	188,265	1.010	Х	<u> </u>				
IT Hours - System Maintenance	Development Svcs		HR	10	165	1,650	1.010	х	х	x	х	x	х
IT Hours - Customer Support	Development Svcs		HR	20	165	3,300	1.010	Х	x	x	x	x	х
IT Hours - Planned Maintenance	Development Svcs		HR	25	165	4,125	1.010		Х		х		х
User Hours - New Development	Development Svcs					0							
User Hours - PTNE/OT	Development Svcs					0				İ	!	!	
Contractor Professional Services	Development Svcs					0						i	
PC System - Acquisition	Hardware				687	0			ĺ	ĺ	Ì	ĺ	
PC System - Maintenance	Hardware				2,936	0			l		1	1	
Notebook - Acquisition	Hardware				1,115	0					1	1	
Notebook - Maintenance	Hardware				3,024	0						1	
Tablet Notebook - Acquisition	Hardware				1,421	0							
Tablet Notebook - Maintenance	Hardware				2,800	0						İ	
Laserprinter - Acquisition	Hardware				1,432	0				İ			
Laserprinter - Maintenance	Hardware				1,408	0						1	
PC Maintenance User Owned	Hardware				2,720	0					!	1	
Printer Maintenance User Owned	Hardware				1,264	0					1	1	
File Space (100GB)	Hardware		ANN		23	0			İ	İ	İ	İ	
Package Software - Acquisition	Software		EA	1	2,591	2,591	1.010	Х		l	1	1	1
Package Software - Maintenance	Software		ANN	1	99	99	1.010	Х	х	x	х	x	х
Business Objects Access	Software					0						!	
Term Emulation SFTW-Acquisition	Software					0					1	1	
Term Emulation SFTW-Maintenance	Software					0			İ	ĺ	ĺ	İ	
Server - Acquisition/Upgrade	Infrastructure				8,000	0					1	1	1
Server - Maintenance	Infrastructure				360	0					1	1	
Server Sftwre - Acquisition/Upgrade	Infrastructure				335	0						1	: 1
Server Sftwre - Maintenance	Infrastructure					0					1	1	
Server Rack Mount	Infrastructure				400	0			İ	İ	İ	İ	
Oracle Enterprise Per Processor -										!	1	1	
Includes Year 1 Maintenance	Infrastructure				21,372	0					!		
Oracle Enterprise Per Processor - Year					,							1	
2 and Beyond	Infrastructure				3,432	0			İ	İ	į		

Return on Investment Analysis

#### Cost Detail

								Aff	ects	s Pro	ojec	t ROI	?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual	1			<b>1</b>	- !	
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	<b>Y3</b>	Y4	Y5 Y	<b>′</b> 6
SQL Server Enterprise - Per Processor												T	
(4 cores) - Purchased Sept 2016-Aug											Ì	-	
2017 - Includes Maintenance thru Aug											- !		
2019	Infrastructure				24,533	0						ļ	
SQL Server Enterprise - Per Processor											i		
(4 cores) - Purchased Sept 2017-Aug										İ	İ		
2018 - Includes Maintenance thru Aug												İ	
2019	Infrastructure				20,759	0					-		
SQL Server Enterprise - Per Processor											į	-	
(4 cores) - Purchased Sept 2018-Aug											- 1		
2019 - Includes Maintenance thru Aug											ı	ļ	
2019	Infrastructure				16,985	0					į		
SQL Server Enterprise - Maintenance,										ŀ	-	-	
Per Processor (4 cores) - Sept 2019													
and Beyond	Infrastructure				4,218	0							
SQL Server Standard - Per Processor											į		
(4 cores) - Purchased Sept 2016-Aug								1		İ	ĺ	İ	
2017 - Includes Maintenance thru Aug											- 1		
2019	Infrastructure				6,398	0					-	-	
SQL Server Standard - Per Processor											- 1		
(4 cores) - Purchased Sept 2017-Aug								1			- 1		
2018 - Includes Maintenance thru Aug										İ	ĺ	İ	
2019	Infrastructure				5,414	0					Ì	-	
SQL Server Standard - Per Processor													
(4 cores) - Purchased Sept 2018-Aug												į	
2019 - Includes Maintenance thru Aug								l			į	ļ	
2019	Infrastructure				4,429	0		1		İ	ĺ	İ	
SQL Server - Standard Maintenance,										1	- 1	-	
Per Processor (4 cores) - Sept 2019											- !	-	
and Beyond	Infrastructure				1,100	0					ļ	ļ	
Websphere Basic Per Processor											i		
Single/Dual Core - Includes Year 1											į	İ	
Maintenance	Infrastructure				3,506	0					Ì		

#### Cost Detail

								Affe	ects	Pro	ojec	t ROI	?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual		ł	- 1			
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3	Y4	Y5 \	<b>/</b> 6
									ļ				
Websphere Basic Per Processor						_			İ	-	- 1		
Single/Dual Core - Year 2 and Beyond	Infrastructure				701	0			_		¦		
Websphere ND Per Processor									ļ				
Single/Dual Core - Includes Year 1						_			į	į	į	į	
Maintenance	Infrastructure				13,180	0		<u> </u>	_	i			
Websphere ND Per Processor									l				
Single/Dual Core - Year 2 and Beyond	Infractructuro				2,635	0		1	Ì	- 1	ĺ	Ì	
SSL Certificate	Infrastructure				2,035	0		H					
Internet Access					180	0					$\dashv$	-+	
	Infrastructure				180	0		<b>-</b>			¦	<u> </u> -	
Imperva Web Application Firewall	 				500				ļ	- 1			
(External Web Applications Only)	Infrastructure		ANN		500	0		H	ij	i	i	<u></u>	
App Code Directories on Consolidated					445			li	į	- 1	į	İ	
IIS Server (Virtual)	Infrastructure		ANN		415	0		Li	_i		i	<u>i</u> -	
Database (5 GB) on Consolidated SQL								1	Ì	- 1	ĺ	Ì	
Instance Server	Infrastructure		ANN		930	0		L.	-				
Database Instance (125 GB DB) on	l		l			_			ļ		ļ	ļ	
Consolidated SQL Server	Infrastructure		ANN		2,395	0			ļ		¦		
Database SQL Maint Server	Infrastructure		ANN		834	0			_				
Database SQL Server Physical	Infrastructure		ANN		19,158	0			_ į		i		
` ' '	Infrastructure		ANN		610	0			_ į		į		
DB Maintenance (Semi-Annual Cycle								1 !	į	į	į	į	
\$1220)	Infrastructure		ANN		1,220	0			ļ				
DB Maintenance (Semi-Annual Cycle									ļ			ł	
\$2440)	Infrastructure		ANN		2,440	0			ļ	- !	-		
Dedicated Virtual Server	Infrastructure		ANN		4,150	0			ļ				
DB Instance Setup	Infrastructure				976	0			į		į		
DBA MS SQL Database Creation on								li	į	l	į	į	
Exisitng Instance	Infrastructure				366	0		li	į	į	į	į	
Extra Small - 2 Core 8GB RAM, 500GB									i		İ		
Drive, 10 GB NIC - Cloud/Virtual =									į	ĺ	į	į	
\$601 On Premise Physical Server =									Ì		Ì		
N/A	Infrastructure		ANN			0			ļ	ļ	į	ł	

#### Cost Detail

								Aff	ects	Proj	ect l	ROI?
	Project Cost	Budget Category/Funding	Unit		Rate per		Annual					
Cost Description	Category	Source	Desc	Units	Unit	Total Cost	Multiplier	Y1	Y2	Y3   1	′4¦Y	5 Y6
Small - 4 Core 16GB RAM, 500GB												
Drive, 10 GB NIC - Cloud/Virtual =											-	
\$951 On Premise Physical Server =												
\$9,288	Infrastructure		ANN			0				İ		
Medium - 8 Core 32GB RAM, 500GB												
Drive, 10 GB NIC - Cloud/Virtual =								li	İ	-		
\$1,702 On Premise Physical Server =												
\$9,751	Infrastructure		ANN			0						
Large - 16 Core 64GB RAM, 500GB								i				
Drive, 10 GB NIC - Cloud/Virtual =								li	i	į		
\$3,167 On Premise Physical Server =									- 1		-	
\$10,446	Infrastructure		ANN			0						
Extra Large - 40 Core 160GB RAM,												
500GB Drive, 10 GB NIC -										İ		
Cloud/Virtual = \$7,564 On Premise												
Physical Server = \$12,906	Infrastructure		ANN			0			j	i		ĺ

Return on Investment Analysis

#### Cost Detail

			Po	tential Cost	Extensions		
	Project Cost		ļ			ŀ	
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
IT Hours - New Development	Development Svcs	188,265.00	!			!	
IT Hours - System Maintenance	Development Svcs	1,650.00	1,666.50	1,683.17	1,700.00	1,717.00	1,734.17
IT Hours - Customer Support	Development Svcs	3,300.00	3,333.00	3,366.33	3,399.99	3,433.99	3,468.33
IT Hours - Planned Maintenance	Development Svcs		4,166.25		4,249.99	ļ	4,335.42
User Hours - New Development	Development Svcs						
User Hours - PTNE/OT	Development Svcs						
Contractor Professional Services	Development Svcs						
PC System - Acquisition	Hardware		i	Ì			
PC System - Maintenance	Hardware		ļ			ļ	
Notebook - Acquisition	Hardware	ļ			ļ		
Notebook - Maintenance	Hardware						
Tablet Notebook - Acquisition	Hardware						
Tablet Notebook - Maintenance	Hardware	İ					
Laserprinter - Acquisition	Hardware	ļ		l	ļ	l	
Laserprinter - Maintenance	Hardware	ļ			j		
PC Maintenance User Owned	Hardware						
Printer Maintenance User Owned	Hardware	l	i			i	
File Space (100GB)	Hardware		i			İ	
Package Software - Acquisition	Software	2,590.67		I		ļ	
Package Software - Maintenance	Software	99.00	99.99	100.99	102.00	103.02	104.05
Business Objects Access	Software						
Term Emulation SFTW-Acquisition	Software	i	i				
Term Emulation SFTW-Maintenance	Software		ļ			ļ	
Server - Acquisition/Upgrade	Infrastructure						
Server - Maintenance	Infrastructure						
Server Sftwre - Acquisition/Upgrade	Infrastructure						
Server Sftwre - Maintenance	Infrastructure		i			i	
Server Rack Mount	Infrastructure		İ				
Oracle Enterprise Per Processor -			!		ļ	ļ	
Includes Year 1 Maintenance	Infrastructure	ļ	ļ		ļ	ļ	
Oracle Enterprise Per Processor - Year					ļ	1	
2 and Beyond	Infrastructure						

Return on Investment Analysis

#### Cost Detail

			Po	tential Cost	Extensions		
	Project Cost		!				
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
SQL Server Enterprise - Per Processor			1	1	<u> </u>	 	<u> </u>
(4 cores) - Purchased Sept 2016-Aug						 	
2017 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server Enterprise - Per Processor			<u> </u>				
(4 cores) - Purchased Sept 2017-Aug					İ		
2018 - Includes Maintenance thru Aug						i   	
2019	Infrastructure						
SQL Server Enterprise - Per Processor							
(4 cores) - Purchased Sept 2018-Aug					İ		
2019 - Includes Maintenance thru Aug					•	i !	
2019	Infrastructure					 	
SQL Server Enterprise - Maintenance,			ŀ				
Per Processor (4 cores) - Sept 2019					ļ		
and Beyond	Infrastructure				İ	į	
SQL Server Standard - Per Processor					ļ	i i	
(4 cores) - Purchased Sept 2016-Aug					-		
2017 - Includes Maintenance thru Aug					ļ		
2019	Infrastructure				į		
SQL Server Standard - Per Processor			İ	İ	İ	i !	İ
(4 cores) - Purchased Sept 2017-Aug						i ! !	
2018 - Includes Maintenance thru Aug					-		
2019	Infrastructure						
SQL Server Standard - Per Processor					ļ		
(4 cores) - Purchased Sept 2018-Aug			İ	İ	İ		İ
2019 - Includes Maintenance thru Aug							
2019	Infrastructure						
SQL Server - Standard Maintenance,							
Per Processor (4 cores) - Sept 2019							
and Beyond	Infrastructure					i !	
Websphere Basic Per Processor							
Single/Dual Core - Includes Year 1							
Maintenance	Infrastructure		İ	İ	İ		İ

Return on Investment Analysis

#### Cost Detail

			Po	tential Cost	Extensions		
	Project Cost			!	ļ	<u> </u>	!
Cost Description	Category	Y1	Y2	Y3	Y4	Y5	Y6
			!		<u> </u>		
Websphere Basic Per Processor			İ		ļ		
Single/Dual Core - Year 2 and Beyond	Infrastructure		}		-		
Websphere ND Per Processor							
Single/Dual Core - Includes Year 1			į		ļ		
Maintenance	Infrastructure						
W. L. AND D. D.					ļ		
Websphere ND Per Processor					ļ		
	Infrastructure		ļ				
SSL Certificate	Infrastructure		İ			i	
Internet Access	Infrastructure				İ	i 	
Imperva Web Application Firewall						 	
(External Web Applications Only)	Infrastructure		1	! !	!	<u> </u>	!
App Code Directories on Consolidated							
IIS Server (Virtual)	Infrastructure				<u> </u>		
Database (5 GB) on Consolidated SQL			į		ļ		
Instance Server	Infrastructure		<u> </u>			i !	
Database Instance (125 GB DB) on						i   	
Consolidated SQL Server	Infrastructure		ļ			! !	
Database SQL Maint Server	Infrastructure					! !	
Database SQL Server Physical	Infrastructure						
DB Maintenance (Annual Cycle \$610)	Infrastructure		<u> </u>		<u> </u>	<u> </u>	
DB Maintenance (Semi-Annual Cycle			}		İ		
\$1220)	Infrastructure				<u> </u>	 	
DB Maintenance (Semi-Annual Cycle			1		•		
\$2440)	Infrastructure						
Dedicated Virtual Server	Infrastructure		<u> </u>		ļ		į
DB Instance Setup	Infrastructure					İ	
DBA MS SQL Database Creation on						 	
Exisitng Instance	Infrastructure		1		<u> </u>	 	
Extra Small - 2 Core 8GB RAM, 500GB							
Drive, 10 GB NIC - Cloud/Virtual =					İ		
\$601 On Premise Physical Server =					İ		<u> </u>
N/A	Infrastructure		į		!		

Return on Investment Analysis

#### Cost Detail

		Potential Cost Extensions								
Cost Description	Project Cost Category	Y1	Y2	Y3	Y4	Y5	Y6			
Small - 4 Core 16GB RAM, 500GB			<u> </u>	1	1	:	<u> </u>			
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			İ			İ	İ			
Drive, 10 GB NIC - Cloud/Virtual =			į			į	İ			
\$3,167 On Premise Physical Server =					-					
\$10,446	Infrastructure									
Extra Large - 40 Core 160GB RAM,										
500GB Drive, 10 GB NIC -			İ		-	İ	İ			
Cloud/Virtual = \$7,564 On Premise			•			•				
Physical Server = \$12,906	Infrastructure									

Cost Summary

Cost Description	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6	Total
Development Services:							
IT Hours - New Development	188,265						188,265
IT Hours - System Maintenance	1,650	1,667	1,683	1,700	1,717	1,734	10,151
IT Hours - Customer Support	3,300	3,333	3,366	3,400	3,434	3,468	20,302
IT Hours - Planned Maintenance		4,166		4,250		4,335	12,752
User Hours - New Development							
User Hours - PTNE/OT							
Contractor Professional Services							
Development Services Subtotal:	193,215	9,166	5,049	9,350	5,151	9,538	231,469
Hardware:		,		·	·	·	
Hardware Subtotal: Software:							
Package Software - Acquisition	2,591						2,591
Package Software - Maintenance	99	100	101	102	103	104	609
Software Subtotal:	2,690	100	101	102	103	104	3,200
Infrastructure:	_,,,,,						5,200
Infrastructure Subtotal							
Training:							
Training Subtotal:							
Other:							
Other Subtotal:	40.7.0.7		- 1				
Costs Total:	195,905	9,266	5,150	9,452	5,254	9,642	234,669

Date: 07/14/2020

REV: May 21, 2018

Return on Investment Analysis

### Assumptions

The doctors currenlty transcribe reports on a cassette tape. The machines can no longer be purchased and to replace the refurbished machine is \$300.00. Average 2 machines per year that break.  Transcription is done to a cassette tape and then has to be transferred to the clerical staff. There is no security of the tape it folder. The cassette tapes can be damaged. There is no way to back-up the recordings for security purposes.  There are 11-devices - 5-Doctors and 6-admins.  Rework from lost transcriptions due to hardware failure is approximately 2-hours of a doctors time per incident. The wages 8 the Forensic Pathologist average \$292,878. 292,878 / 2080 = 140.80 per hour avg. 140.80 x 6 ~ \$846  ME office will purchase the SaaS solution for \$2,590.67, which includes handheld devices and foot pedals as well as the 12	t is just in a & benefits for the
Transcription is done to a cassette tape and then has to be transferred to the clerical staff. There is no security of the tape it 18-Feb-20 folder. The cassette tapes can be damaged. There is no way to back-up the recordings for security purposes.  28-Feb-20 There are 11-devices - 5-Doctors and 6-admins.  Rework from lost transcriptions due to hardware failure is approximately 2-hours of a doctors time per incident. The wages 8 28-Feb-20 the Forensic Pathologist average \$292,878. 292,878 / 2080 = 140.80 per hour avg. 140.80 x 6 ~ \$846  ME office will purchase the SaaS solution for \$2,590.67, which includes handheld devices and foot pedals as well as the 12	& benefits for the
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18-Jun-20 support package for \$99/yr for two years	
08-Jul-20 SaaS solution will be integrated with Okta	

Dictation device Upgrade ROI (2)/Assumptions Date Printed: 7/16/2020

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