

Stage 2 Preliminary Assessment

2.1 General Information					
Agency or State Entity Name:					
Department of Consumer Affairs					
Organization Code:					
1111					
Proposal Name:					
Business Modernization Cohort 2 (BMC 2)	1111 014				
Department of Technology Project Number:	1111-014				
2.2 Preliminary Submittal Informati	on				
Contact First Name:	Contact Last	Name:			
Lisa	Rangel				
Contact Email:	Contact Phon	e:			
Lisa.Rangel@dca.ca.gov	916-574-7742	2			
Preliminary Submission Date:	Preliminary A	ssessment Transı	mittal:		
12/31/2020	00 SIMM_190	61-Project_Approv	val_Executive_	Transmitt	al
2.3 Stage 2 Preliminary Assessment					
2.3.1 Impact Assessment					
				Yes	No
1. Has the Agency/state entity identified and committed subject matter experts from all business sponsors and key stakeholders?					
2. Are all current baseline systems that will be impacted by this proposal documented and current (e.g., data classification and data exchange agreements, privacy impact assessments, design documents, data flow diagram, data dictionary, application code, architecture descriptions)?					
 Does the Agency/state entity anticipate ne Technology (CDT) Statewide Technology P this proposal (Market Survey, Request for 	eeding support from th rocurement (STP) to cc Information)?	e California Depar induct market res	tment of earch for		
 Does the Agency/state entity anticipate submitting a budget request to support the procurement activities of this proposal? 					\boxtimes
5. Could this proposal involve the development and/or purchase of systems to support activities included in Financial Information System for California (FI\$Cal) (e.g., financial accounting, asset management, human resources, procurement/ordering, inventory management, facilities management)?					
6. Does the Agency/state entity have a designated Chief Architect or Enterprise Architect to lead the development of baseline and alternative solutions architecture descriptions?					
7. Will the Agency/state entity's Information Security Officer be involved in the development and review of any security related requirements?					
8. Does the Agency/state entity anticipate performing a business-based procurement to have vendors propose a solution?					
2.3.2 Business Complexity Assessment					
Business Complexity: 0.9 Business	s Complexity Zone:	□ High	□ <mark>Medium</mark>	🛛 Lov	v



2.4 Submittal Information					
Contact Information:					
Contact First Name:	Contact Last Name:				
Lisa	Rangel				
Contact Email:	Contact Phone:				
Lisa.Rangel@dca.ca.gov	916-574-7742				
Submission Date:	Project Approval Executive Transmittal:				
12/31/2020	00 SIMM_19G1-Project_Approval_Executive_Transmittal				
Submission Type:					
□ New Submission □ U	pdated Submission (Post-Approval)				
Updated Submission (Pre-Approval)	/ithdraw Submission				
F	teason: Budget issues				
l l	f "Other," specify:				



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Sections Updated (For Updated Submissions Only) – (check all that apply)					
	2.1 General Information		2.10.6 Implementation Approach		
	2.2 Preliminary Submittal Information		2.10.7 Architecture Information		
	2.3 Stage 2 Preliminary Assessment		2.11 Recommended Solution		
	2.3.1 Impact Assessment		2.11.1 Rationale for Selection		
	2.3.2 Business Complexity Assessment		2.11.2 Technical/Initial IT Project Oversight Framework Complexity Assessment		
	2.4 Submittal Information		2.11.3 Procurement and Staffing Strategy		
	2.5 Baseline Processes and Systems		2.11.4 Enterprise Architecture Alignment		
	□ 2.5.1 Description		□ 2.11.5 Project Phases		
	□ 2.5.2 Business Process Workflow		2.11.6 High Level Proposed Project Schedule		
	\square 2.5.3 Current Architecture Information		2.11.7 Cost Summary		
	2.5.4 Current Architecture Diagram		2.12 Staffing Plan		
	\square 2.5.5 Security Categorization Impact Table		2.12.1 Administrative		
	2.6 Mid-Level Solution Requirements		2.12.2 Business Program		
	2.7 Assumptions and Constraints		2.12.3 Information Technology (IT)		
	2.8 Dependencies		□ 2.12.4 Testing		
	2.9 Market Research		2.12.5 Data Conversion/Migration		
	2.9.1 Market Research Methodologies/Timeframes		\square 2.12.6 Training and Organizational Change Management		
	\Box 2.9.2 Results of Market Research		□ 2.12.7 Resource Capacity/Skills/Knowledge for Stage 3 Solution		
	2.10 Alternative Solutions		Development		
	\Box 2.10.1 Solution Type)		2.12.8 Project Management		
	Recommended		2.12.8.1 Project Management Maturity Assessment		
	□ Alternative		2.12.8.2 Project Management Planning		
	□ 2.10.2 Name		2.12.9 Organization Charts		
	2.10.3 Description		2.13 Data Conversion/Migration		
	2.10.4 Benefit Analysis		2.14 Financial Analysis Worksheets		
	\square 2.10.5 Assumptions and Constraints				

Summary of Changes:

Condition(s) from Previous Stage(s):				
Condition #				
Condition Category	Select			
Other, specify				
Condition Sub-category	Select			
Other, specify				
Condition				
Assessment	Select			
Other, specify				
Agency/state Entity				
Response				
Status	Select			
Other, specify				
Select + to add conditions.				



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2.5 Baseline Processes and Systems

2.5.1 Description

The following Programs within the Department of Consumer Affairs' (DCA) umbrella have completed business process mapping and functional requirements identification needed for their business modernization initiative:

- Bureau of Household Goods and Services (BHGS)
- California Architects Board & Landscape Architects Technical Committee (CAB/LATC)
- Structural Pest Control Board (SPCB)
- Cemetery and Funeral Bureau (CFB)

They have identified multiple common requirements and decided to form together as "Business Modernization Cohort 2 (BMC 2)".

<u>BHGS</u>

BHGS licenses and regulates approximately 44,500 companies across the globe from small single-person businesses to major corporations. BHGS staff are responsible for licensing or registering companies, inspecting businesses, ensuring compliance with laws and regulations, conducting investigations, testing products to determine if they meet the required standards, conducting research and development, educating applicants and registrants, and initiating disciplinary action against companies which are in violation of regulations.

CAB/LATC

CAB/LATC licenses and regulates approximately 47,000 individual licenses. Staff within the CAB/LATC are responsible for consumer protection through the regulation of licensees and provide administrative oversight and support services. CAB/LATC also sets its own policies, procedures, and regulations to protect the public in the practice of architecture and landscape architecture. Architects design buildings to meet the owner's requirements for function, safety and durability, satisfy environmental standards, and contribute esthetically to the surrounding communities. Landscape Architects provide professional services for landscape preservation, development, and enhancement. These services include consultation, investigation, reconnaissance, research, planning, design, preparation of drawings, construction documents and specifications, and responsible construction observation.

<u>SPCB</u>

SPCB licenses and regulates approximately 29,000 individual licenses and organizations. Staff within the SPCB are responsible for the protection of the public in the practice of structural pest control. Structural pest is the control of household pests (including but not limited to rodents, vermin, and insects) and wood-destroying pests and organisms or other pests which may invade households or structures.

The practice of structural pest control includes engaging in, offering to engage in, advertising for, soliciting, or the performance of any of the following: identification of infestations or infections; the making of an inspection for the purpose of identifying or attempting to identify infestations or infections of household or other structures by such pests or organisms; the making of inspection reports; recommendations, estimates, and bids, whether oral or written, with respect to such infestation or infections; and the making of contracts, or the submitting of bids for, or the performance of any work including the making of structural repairs or replacements, or the use of pesticides, insecticides, rodenticides, fumigants, or allied chemicals or substances, or mechanical devices for the purpose of eliminating, exterminating, controlling or preventing infestations or infections of such pests, or organisms.

<u>CFB</u>

The CFB licenses and regulates approximately 13,500 individual and organization licenses. The CFB is responsible for the licensing, enforcement complaint investigations of funeral establishments, funeral directors, embalmers,



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apprentice embalmers, cemetery brokers/branch/additional, cemetery salespersons, cremated remains disposers, crematories, crematory managers, cemetery managers, and the nearly 200 licensed private cemeteries in the State.

Baseline Systems

The DCA's Consumer Affairs System (CAS) and Applicant Tracking System (ATS) are two legacy systems used by BHGS, CAB/LATC, and SPCB, and CFB to support the current business processes of all units within these Programs.

ATS tracks and monitors activities for the license applications and cashiering. CAS provides licensing and enforcement functionality that tracks license-related activities such as license maintenance, renewals, complaint tracking, investigation activity tracking, and administrative and disciplinary actions. In addition to CAS and ATS, program-specific systems include:

- SPCB utilizes a third-party Wood-Destroying Organism (WDO) system which tracks work completed by termite companies within the past two years and has cashiering capabilities.
- BHGS utilizes the California Public Utility Commission's (CPUC) Transportation Management Information System (TMIS) only for the household movers license type. CPUC's TMIS is a licensing system. In July 2018, the regulation of household movers was moved from CPUC to BHGS. With the upcoming business modernization initiative, it was agreed by CPUC, BHGS, and DCA's Office of Information Services (OIS) to not transfer the TMIS to BHGS and that it will be incorporated as part of the business modernization effort. BHGS currently accesses TMIS remotely to process license applications received and it is currently maintained by CPUC.
- LATC utilizes a Work Around System (WAS) which is used to track exam candidate data for applicants who have submitted information to become eligible to sit for the required exams.

2.5.2 Business Process Workflow

DCA's Organizational Improvement Office (OIO) have worked closely with each Programs' subject matter expert to develop "As Is" and "Could Be" business process maps for each program. These business maps are attached.

Business Function/Process(es)	License Issuance			
Business Function/Process(es)	License Renewal			
Business Function/Process(es)	License Maintenance			
Business Function/Process(es)	Complaint Intake			
Business Function/Process(es)	Complaint Investigation			
Business Function/Process(es)	Disciplinary Actions			
Business Function/Process(es)	Cashiering			
Business Function/Process(es)	Refunds			
Business Function/Process(es)	Inspections			
Business Function/Process(es)	Reports			
Select + to add a business process with the sar	ne application, system, or component; COTS, MOTS or custom solution;			
runtime environment; system interfaces, data	center location; and, security.			
Application, System or Component	CAS			
Select + to add an application, system, or component.				
COTS, MOTS or Custom	Custom application			
Name/Primary Technology:	CAS			

Attachment: 2.5.2 Process Maps

2.5.3 Current Architecture Information



Runtime Environment	Cloud Computing Used?	🗆 Yes 🛛 No	If "Yes," specify:	Select				
	Server/Device Function	Mainframe		·				
	Hardware	IBM Mainframe						
	Operating System	IBM ZOS						
	System Software	Natural						
		Select + to add sy	stem software.					
System Interfaces		DCA License Sea	rch, Franchise Tax I	Board (FTB), Child Support Services				
		(CSS), Financial A	Accounting and Cas	hiering Electronic Transactions				
		(FACET), CA Dept. Tax and Fee Administration (CDTFA), and various						
		scheduled outbound files						
Data Center Locati	on	State data cente	r operated by CDT					
	Other, specify							
Security	Access	🗆 Public 🛛 Int	ernal State Staff	External State Staff				
	(check all that apply)	🗆 Other, specify	<i>y</i> :					
	Type of Information	🛛 Personal 🗌	Health 🗆 Tax 🗆	Financial 🗆 Legal				
	(check all that apply)	🛛 Confidential	\Box Other, specify:					
	Protective Measures	☑ Technical Security ☑ Identity Authorization and Authentication						
	(check all that apply)	Physical Security Backup and Recovery						
		🗆 Other, specify	/ :					
Data Management	t Data Owner	Name: Kimberly	' Kirchmeyer					
		Title: Director						
		Business Program	m: DCA					
	Data Custodian	ו Name: Baird Cowan						
		Title: Chief Technology Officer						
		Business Program	m: DCA OIS					
Business Function,	/Process(es)	Initial application	ns submittal and ev	valuation				
Business Function,	/Process(es)	Application deficiency tracking						
Business Function,	/Process(es)	Exam scheduling	g, results and tracki	ng				
Business Function	/Process(es)	Cashiering						
Select + to add a b	usiness process with the sa	ne application, system, or component; COTS, MOTS or custom solution;						
runtime environm	ent; system interfaces, data	center location; and, security.						
Application, Syster	n or Component	AIS						
	stom	Select + to add an application, system, or component.						
Name/Driv	nary Technology:	Applicant Tracki	ng System					
Runtime	Cloud Computing Used?		If "Ves" specify:					
Environment	ciouu computing oseu:		ii ies, specity.					
Linnonment	Server/Device Function	Application/Data	ahase					
	Hardware	Sun						
	Operating System	Solaris						
	System Software	System Software Oracle Forms						
		Select + to add sy	stem software.					
System Interfaces		DOJ/FBI - Finger	print Data; FACET (State Accounting); Consumer				
		Affairs System; E	xamination Data					
Data Center Locati	on	Agency/state data center operated by Agency/state entity						
	Other, specify	Click here to enter text.						
Security	Access	🦲 🗆 Public 🛛 Internal State Staff 🛛 External State Staff						



		(check all that apply)	y) 🗌 Other, specify:					
		Type of Information	🖾 Personal 🗌 Health 🗌 Tax 🗌 Financial 🗌 Legal					
		(check all that apply)	🛛 Confidential 🛛 Other, specify:					
		Protective Measures	🖾 Technical Security 🛛 Identity Authorization and Authentication					
		(check all that apply)	🛛 Physical Secu	rity 🛛 Backup and R	ecovery			
			\Box Other, specify	/:				
Data Managemen	t	Data Owner	Name: Kimberly	Kirchmeyer				
			Title: Director					
			Business Program: DCA					
		Data Custodian	Name: Baird Cowan					
			Title: Chief Technology Officer					
			Business Program	n: DCA OIS				
Business Function,	/Proc	ess(es)	SPCB License Ma	intenance				
Select + to add a b	usine	ess process with the sar	ne application, sy	stem, or component;	COTS, MOTS or custom solution;			
runtime environm	ent; s	system interfaces, data	center location; a	nd, security.				
Application, System	m or (Component	WDO					
			Select + to add a	n application, system	n, or component.			
COTS, MOTS or Cu	stom		Custom applicat	ion				
Name/Pri	mary	Technology:	WDO	· <i>C //</i> · / · · · C				
Runtime	Clo	oud Computing Used?	🗆 Yes 🖾 No	If "Yes," specify:				
Environment	50	mor/Davica Eurotian	WDO: Simplivity					
	36							
		Hardware	WDO: HP DI 380 Gen 10					
		Operating System	WDO: RedHat E	nterprise Linux 7.5				
		System Software	WDO: Oracle We	ebLogic				
			Select + to add sy	stem software.				
System Interfaces			WDO: CAS, Optio	cal Scanner Reader				
Data Center Locat	ion	Other specify	State data cente	r operated by CDT				
Socurity				ornal Stato Staff	Extornal State Staff			
Security		(check all that apply)	\square Public \square Internal State State \square External State State					
		Type of Information	\boxtimes Dersonal \square	Health \Box Tay \Box E				
		(check all that apply)	\square Personal \square Health \square Tax \square Financial \square Legal					
		Protective Measures	☐ Confidential ☐ Other, specify:					
		(check all that annly)	Physical Security Reacture and Reservery					
		(check an that apply)	Other specify		ecovery			
Data Managemen	ŀ	Data Owner	Name: Kimberly	y. Kirchmever				
Data Managemen		Data Owner	Title: Director	Kirchineyer				
			Business Program: DCA					
		Data Custodian	Name: Baird Cowan					
			Title: Chief Tech	nology Officer				
			Business Program	n: DCA OIS				
Business Function/Process(es)			BHGS License Iss	uance				
Select + to add a business process with the sar			ne application, sy	stem, or component;	COTS, MOTS or custom solution;			
runtime environm	ent; s	system interfaces, data	center location; a	nd, security.				
Application, System	m or (Component	TMIS (maintained by CA Public Utility Commission)					



		Select + to add an application, system, or component.					
COTS, MOTS or Cu	stom	Custom application					
Name/Prir	nary Technology:	Oracle					
Runtime Environment	Cloud Computing Used?	□ Yes ⊠ No If "Yes," specify:					
	Server/Device Function	Apex applications on the Oracle database 12c					
	Hardware	16G Memory- 2 CPUs (2 core)					
	Operating System	Oracle Linux Server release 6.9					
	System Software	Oracle					
		Select + to add system software.					
System Interfaces		California Highway Patrol and the Dept. of Insurance					
Data Center Locati	on Other, specify	San Francisco					
Security	Access	🛛 Public 🖾 Internal State Staff 🖾 External State Staff					
	(check all that apply)	□ Other, specify:					
	Type of Information	Personal Health Tax Financial Legal					
	(check all that apply)	Confidential Other, specify: Passenger Transportation					
	Protective Measures	\boxtimes Technical Security \boxtimes Identity Authorization and Authentication					
	(check all that apply)	Physical Security Backup and Recovery					
	(\square Other specify					
Data Management	Data Owner	Name: Kimberly Kirchmeyer					
		Title: Director					
		Business Program: DCA					
	Data Custodian	Name:					
		Title:					
		Business Program:					
Business Function/	/Process(es)	LATC Candidate Examination Information					
Select + to add a b	usiness process with the sar	ne application, system, or component; COTS, MOTS or custom solution;					
runtime environm	ent; system interfaces, data	center location; and, security.					
Application, Syster	n or Component	WAS					
		Select + to add an application, system, or component.					
COTS, MOTS or Cu	stom	Custom application					
Name/Prir	nary Technology:	C# .net application					
Runtime Environment	Cloud Computing Used?	□ Yes ⊠ No If "Yes," specify:					
	Server/Device Function	MS SQL Server					
	Hardware	Virtual					
	Operating System	Windows Server					
	System Software	n/a					
		Select + to add system software.					
System Interfaces		n/a					
Data Center Locati	on Other, specify	DCA – FDC					
Security	Access	Public Internal State Staff External State Staff					
	(check all that apply)	□ Other, specify:					
	Type of Information	🛛 Personal 🗆 Health 🗆 Tax 🔷 Financial 🗆 Legal					
	(check all that apply)	Confidential 🗌 Other, specify:					
	Protective Measures	$oxed{intermation}$ Technical Security $oxed{intermation}$ Identity Authorization and Authentication					



	(check all that app	Dly)	 Physical Security Backup and Recovery Other, specify: 				
Data Management	Data Ow	ner Name: Kimberly Kir	chmeyer				
		Title: Director					
		Business Program: D	Business Program: DCA				
	Data Custod	ian Name: Baird Cowan	Name: Baird Cowan				
		Title: Chief Technolo	ogy Officer				
		Business Program: D	ICA OIS				
Select + to add bus	siness functions/proces	ses.					
2.5.4 Current Arc	hitecture Diagram						
Attachment: 2.5.4	Network Map						
2.5.5 Security Ca	tegorization Impact	Table					
Attachment: 2.5.5	Security Categorizatio	n Impact Table					
	SECURITY C	ATEGORIZATION IMPAC	T TABLE SUMMARY				
SECURITY	OBJECTIVE	LOW	MODERATE	HIGH			
Confidentiality							
Inte	egrity		\boxtimes				
Availability							
2.6 Mid-Level Solution Requirements							
Attachment: 2.6_Mid-Level Solution Reqs v1.0							



2.7 Assumptions and Constraints	
Assumptions/Constraints	Description/Potential Impact
Project receives the funding requested	Funding is a key factor for the success of this proposal. It is strongly assumed that necessary funding for this proposal will be granted and funding will be available throughout the lifecycle of this project via approved budget authority.
Project tools available	IT projects require special software and tools to manage successfully. IT and program staff to be equipped and trained on the appropriate project management, requirements management, and testing tools.
Project will continue to be a high priority for the Programs and DCA	The priority of this project is high, and it will remain at that level for the duration of the project.
Standard operating hours	Staff will be available during normal business hours (M-F, 8 a.m.– 5 p.m.), excluding state holidays.
Technology is available to create a solution which meets the program needs	The appropriate technology is available and will be used in the development and implementation of the project.
Project resources are available and engaged in project activities	The resources required for this project are available in a timely manner and are engaged in project activities.
Normal availability of services and resources persist	Throughout the project lifecycle, the Programs will continue to provide the same level and quality of services.
Subject Matter Expert (SME) resources	It is crucial that SMEs are available to the project. Specific staff will support implementation and cross-training to make the project a success.
Warranty	For this proposal to be successful, it is important that the solution will have a maintenance warranty or agreement to cover all unforeseen issues upon implementation, go-live, and continued production. Also, upgrades and configurations are necessary to continue to keep the system effective over time.
All Programs remain engaged and agree to continue as a cohort	BHGS, CAB/LATC, SPCB, and CFB, have committed to remain as a cohort and to select the same solution and undergo all PAL activities at the same time.
Details for financial analysis will be estimated	The estimate included in the Financial Analysis Worksheets (FAWs) is based on the best information available at the time after extensive market research. As knowledge and understanding grow to improve estimates, there may be changes to project cost.
Select + to add assumptions/constraints.	
2.8 Dependencies	
Element	Description
Hiring of a consultant to act as a project manager	For this proposal to be implemented successfully, it will require a project manager to be hired who will be responsible for ensuring system implementation occurs according to the agreed upon project plans.
Vendor will train users on how to access and navigate solution	Vendor will provide superuser system training and train staff to be able to provide trainer support.



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DCA OIS Support		The Programs will rely on redirected and dedicated OIS					
S			support to collaborate with the subject matter experts and				
p n			program leadership on an effective and feasible solution.				
			Program stant and leadership are not experts in technology				
Fund	ding	Sufficien	t fund	ling must first be identified before this proposal			
1 and	2006	can be ir	an be implemented.				
Data Dictionary The da			ata dictionary must be completed prior to data				
Data	Migration	Improvir	ng dat	a accuracy prior to data migration is necessary			
	-	before a	syste	m can be implemented.			
Clou	d hosted solutions may have unexpected	Cloud so	lutior	as are generally reliable, and vendors will be held			
dow	ntime where the system will not be available, this	to servic	e leve	l agreements. The Programs will be dependent			
will	be outside the control of the Programs.	on the se	ervice	provider and have an action plan in place to			
	A with antication	address	possil	ble compromises or failure of the system.			
User Authentication Ih		User ID and authentication purposes.					
A re	quirements traceability matrix will help ensure	Program	ogram staff will measure the new system results against				
that	all requirements are met.	business requirements to ensure that they meet business					
C		objectives. They will provide the vendor feedback and					
Curt	om Intogrator		ai req	uirements, as needed.			
Syst	emintegrator	successfully to implement the InLumon solution.					
Sele	ct + to add dependencies.	30000331					
2.9	Market Research						
2.9.	1 Market Research Methodologies/Timeframes						
Met	hodologies Used To Perform Market Research	n (check	all th	nat apply):			
	Request for Information (REI)	(Trade shows			
			Published Literature				
Vendor Forums/Presentation		\bowtie	Leveraged Agreements				
Collaboration with other Agencies/state entities or governmental entities			Other, specify: Market Research Questionnaire				
Tim	e spent conducting market research:	5 mont	hs				
Date market research was started: 8/8/201			19				
Dat	Date all market research was completed: 12/6/2019						

2.9.2 Results of Market Research



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In order to conduct a thorough alternative analysis, the Programs and OIS initiated a comprehensive market research effort that drew on many different sources of information. This included DCA's IT portfolio, vendor demonstrations, questionnaires, and researching other states.

1. DCA's IT Portfolio

DCA's modernized IT licensing and enforcement portfolio now includes: Connect's Software as a Service (SaaS) with inLumon, BreEZe with Versa Online/Versa Regulation, and Cannabis Licensing Enforcement and Reporting (CLEaR) with Accela.

• **Connect:** To gain exposure and determine if Connect's highly successful MVP implementation can meet the Program's business needs, DCA OIS provided a demonstration of Connect's MVP functionality for the Board for Professional Engineers, Landscape Surveyors, and Geologist's (BPELSG) from a practical business-user perspective.

inLumon's SaaS solution is cloud-based and meets CDT's Technology Letter (TL) 17-06: Update to Cloud Computing Policy – Infrastructure and Platform. This Cloud Computing policy required all Agencies/state entities to utilize cloud computing technologies first, for the delivery of IT services in a cost effective manner.

 BreEZe: Since 2013, BreEZe has been in the DCA IT portfolio. It provides licensing and enforcement of online submission of applications, evaluation of those applications, back office workflow tools, licensee continuing education, and enforcement intake and case tracking. A thourough demonstration was provided to the Programs in August of 2019.

BreEZe is a configurable commercial-off-the-shelf (COTS) system that has limited system extensions (e.g., Cognos integration and custom license search) that were implemented over time. However, BreEZe's COTS solution does not conform to CDT's TL 17-06 and is cost prohibitive.

• **CLEaR:** In 2017, the Bureau Of Cannabis Control (BCC) launched the CLEaR system with Accela's cloud-based solution. The system provides the "look and feel" of a custom web page, customized features, and ad hoc reporting features implemented for BCC. A thourough demonstration was provided to the Programs in August of 2019.

Accela's CLEaR is a cloud-based solution that is highly configurable, but it is not as flexible as a custom or platform-based solution.

2. Software Solution Demonstrations

OIS, on behalf of the Programs, coordinated several software solution system demonstrations. The demonstrations were performed August 2019 through the beginning of December 2019 and in some cases, at the request of the Programs, were demonstrated more than once. In total, nine solutions outside of DCA's IT Portfolio were demonstrated. Some solutions were presented by the solution vendor only as they do not outsource for solution integrators as the services are provided within the same company.

Below is the full list of the software vendor and/or solutions that were demonstrated:

- Thentia
- Grant Thorton Infor
- InLumon
- Crowe LLP Microsoft Dynamics 365
- PegaSystems



- VIP Entellitrak
- VIP Salesforce
- Accenture Salesforce
- Estrada OutSystems

These system demonstrations support that a robust marketplace exists for solutions that can meet the needs of DCA Programs interested in moving into an improved licensing and enforcement system.

OIS has confirmed these solutions can be implemented via an agile methodology that DCA will be pursuing for all IT projects moving forward.

3. Market Research Questionnaire

A Market Research Questionnaire was released on October 25, 2019 in lieu of a formal Request for Information. The Programs and OIS evaluated responses provided by the vendors and received a combination of COTS, and platform as a service (PaaS) solutions and Software as a Service (SaaS) recommendations from the vendor community. The most complete responses assisted in identifying potential project and maintenance and operations costs, software solution costs, project duration, development approach, and accessibility to integration with DCA's Digital Ecosystem.

4. Communications with other Executive Officers from various States

CAB/LATC inquired with other Executive Officers from various states who have also either completed recent business modernization activities or have already completed them and what solutions they chose. The responses received were very informative and provided valuable insight regarding vendors which had previously provided a system demonstration to DCA's Programs.

In conclusion, Programs considered various criteria to determine the best solution alternative to pursue. The best solution for this proposal meets the project goals and objectives, is cost effective, leverages the most modern technology, and follows the Programs' and DCA's strategic direction. A Software as a Service – inLumon solution available via a leveraged procurement agreement was deemed to be the best solution.

2.10 Alternative Solutions

2.10.1 Solution Type

 \boxtimes Recommended

2.10.2 Name

inLumon Software as a Service (SaaS)

2.10.3 Description



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This alternative would leverage a solution within the DCA's IT portfolio which is being implemented for the Business Modernization Cohort 1 (BMC 1).

DCA recommends using a Software Licensing Program (SLP) to purchase new licenses and instances of the InLumon software. The new software instances would be developed to the specific BMC 2 requirements. While the same software is being used by BMC 1, the new instances purchased and developed for BMC 2 would have no impact to the continuous development of BMC 1.

Furthermore, DCA recommends using the cloud-based InLumon SaaS solution as it has proven to be a viable option to implement licensing and enforcement modernization quickly and efficiently, delivering mission critical functionality supporting telework and improved online capabilities for consumers, applicants and licensees.

A solicitation would be released to bring in a vendor to configure the software. The applicable BMC 2 business process diagrams, system requirements, and associated use cases developed during the planning activities would be leveraged in the BMC 2 SOW to assist in streamlining the configuration.

Through market research, this approach was proven to be the most cost effective and most effective at reducing key areas of project risk as DCA is familiar with this solution. In addition, putting the Programs in a position to modernize in the future given the open architected nature of a SaaS.

An agile implementation will be used with multiple releases, including a Minimum Viable Product (MVP) release, to deliver functionality throughout the project phase instead of only at the project's conclusion. This approach was successfully used on the OIS-led Cannabis Licensing Enforcement and Reporting (CLEaR) Project. In addition, most recently with the success of the Business Modernization Cohort 1 porgrams, which delivered their MVP in September 2020.

The approach for procurement of additional instances and licenses of the inLumon solution, for BMC 2 programs, , will allow the Programs and OIS to work with functionality which already exists and are familiar with. This will allow for a smooth transition to obtaining the benefits of key business process improvements such as online application submission and acceptance of credit card payments early in the project. This will increase stakeholder confidence, constituent satisfaction, and business buy-in.

The Programs have agreed to partner as a group and will be going through the PAL process together to share project costs and better negotiate competitive rates.

Approach (Check all that apply):

- ☑ Increase staff new or existing capabilities
- Modify the existing business process or create a new business process
- Reduce the services or level of services provided
- Utilize new or increased contracted services
- Enhance the existing IT system
- Create a new IT system
- Perform a business-based procurement to have vendors propose a solution
- Other, specify: Utilize open competition procurement (RFP) and formal solicitation for contracted vendors.

2.10.4 Benefit Analysis

Benefits/Advantages

This option would utilize a leveraged procurement agreement to purchase license subscriptions for DCA's existing cloud-hosted solution, inLumon.

Using existing DCA software allows for familiarity in transitioning off of legacy systems to a SaaS.

The recommended solution achieves project objectives in an acceptable timeframe.



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This option will provide a solution with an open-architected solution that can enhance or increase the level of service in the future.

SaaS has proven through market research to be modernized in their look and feel and highly capable of convenient methods of communication with the external user like text message, email updates, and mobile compatibility features. The open-architected and customizable nature of the solution facilitates an opportunity for incremental project software releases and future enhancements.

Select + to add benefits/advantages.

Disadvantages

Programs will need to become familiar with a new solution and require an update in daily processing documentation. Program staff will receive training and require updates to current documentation.

While market research conducted indicates platform solutions are generally robust and capable of meeting a broad set of business objectives and requirements, any 'off the shelf' software by its nature runs some risk of not being able to meet requirements exactly in the manner the business intends.

Select + to add disadvantages.

Anticipated Time to Achieve Objectives After Project Go-Live							
Objective Timeframe							
Objective Number	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years		
BHGS: 1.1 - 3.2	BHGS: 1.1 - 3.2						
CAB/LATC:1.1 -3.1	\boxtimes						
SPCB: 1.1 - 3.1	\boxtimes						
CFB: 1.1 – 3.1	\boxtimes						
Select + to add obj	ectives.						
	Anticipated Tir	ne to Achieve Finan	cial Benefits After Pr	oject Go-Live			
Financial Benefit	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years		
Increased Revenue	s 🗌						
Cost Saving	s 🗌						
Cost Avoidance	e 🛛						
Cost Recovery Image: Cost Rec							
2.10.5 Assumptions	and Constraints						
Additional budget ap	propriation is neede	ed.					
Deploying this solution	on is not for the pur	pose of generating a	dditional revenue.				
The vendor will prov	ide maintenance and	d operations services	s, functional and syst	em administration k	nowledge transfer		
to state staff.							
Current and future c	osts associated with	the system will be p	aid for by the Progra	ims.			
The system will be so	calable to meet futur	re program needs.		he first upon of ooftu	va va la va ab		
Litilization of email a	nd text (SMS) will re	wered cost in paper	voidance for the proc	The first year of sollw	are launch.		
Select + to add assur	notions/constraints	suit in future cost av		si airis.			
2.10.6 Implementation Approach							
Identify the type of	existing IT system e	nhancement or new	v system proposed (check all that apply):			
Enhance the cu	rrent system						
Develop a new	custom solution						
Purchase a Com	nmercial off-the-She	f (COTS) system					
Purchase or obt	tain a system from a	nother government	agency (Transfer)				



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\boxtimes	Subscribe to a Software as a Service (SaaS) system					
	Other, specify: Platform Solution					
Ide	ntify cloud services to be leveraged (check all that apply):					
	Software as a Service (SaaS) provided by OTech					
\boxtimes	Software as a Service (SaaS) provided by commercial vendor					
	Platform as a Service (PaaS) provided by OTech					
	Platform as a Service (PaaS) provided by commercial vendor					
	Infrastructure as a Service (IaaS) provided by OTech					
	Infrastructure as a Service (IaaS) provided by commercial vendor					
	No cloud services will be leveraged by this alternative. Provide a description of why cloud services are not being					
	leveraged:					
Ide	ntify who will modify the existing system or create the new system (check all that apply):					
\boxtimes	Agency/state entity IT staff					
\boxtimes	A vendor will be contracted					
	Inter-agency agreement will be established with another governmental agency. Specify Agency name(s):					
\boxtimes	Other, specify: Leveraged procurement agreements will be used, where applicable.					
Ide	ntify the implementation strategy:					
	All requirements will be addressed in this proposed project in a single implementation.					
\boxtimes	Requirements will be addressed in incremental implementations in this proposed project.					
	Some requirements will be addressed in this proposed project. The remaining requirements will be addressed					
	later.					
	Specify the year when the remaining requirements will be addressed:					
Ide	ntify if the technology for the proposed project will be mission critical and public facing:					
\boxtimes	The technology implemented for this proposed project will be considered mission critical and public facing.					

2.10.7 Architecture Information



Business Function/	Process(es)	Licensing Applications Examinations Renewal Cashiering Enforcement Reporting License Search				
Select + to add a bu runtime environme	usiness process with the same ent; system interfaces, data o	ne application, sys center location; a	tem, or component nd, security.	t; COTS, MOTS or custom solution;		
Application, System	n or Component	Licensing, Applic	ations and Enforce	ment		
	·	Select + to add a	in application, syste	em, or component.		
COTS, MOTS or Cus	stom	Custom				
Ν	Jame/Primary Technology:	Software as a Se	rvice – InLumon Sa	aS solution		
Runtime Environment	Cloud Computing Used?	⊠ Yes □ No	If "Yes," specify:	SelectSaaS		
	Server/Device Function	TBD				
	Hardware	TBD				
	Operating System	TBD				
	System Software	ТВД				
	S	Select + to add system software.				
System Interfaces		DOJ/FBI - Fingerprint Data; FACET; CSS, FTB, Various Scheduled Outbound Files				
Data Center Locatio	on	Other – Vendor'	s Data Center			
	Other, specify	Government Cloud based service (FedRAMP)				
Security	Access (check all that apply)	Public Internal State Staff External State Staff Other. specify:				
	Type of Information (check all that apply)	Personal 🗌	Health 🗌 Tax 🗌 F	Financial 🗌 Legal		
	Protective Measures	Technical Sec	curity 🔀 Identity A	uthorization and Authentication		
	(check all that apply)	Physical Secu	urity 🔀 Backup and y:	d Recovery		
Data Management	Data Owner	Name: Kimberly	v Kirchmeyer			
		Title: Director				
		Business Program	m: DCA			
	Data Custodian	Name: Baird Co	wan			
		Title: Chief Tecl	hnology Officer			
			Business Program: DCA OIS			



Select +	to add busine	ess functions/proces	ses.					
Alter	native							
2 10 3 D	escription							
This alte	rnative was r	ecessary for the Pro	grams to evaluate	existing DCA system	s as an alternative d	uring Stage 2 This		
alternati	ive would lev	erage a DCA licensin	g and enforcemen	t IT system implemen	ited for BCC under t	he DCA umbrella.		
The proje	ect period fo	r this option is antici	pated to be 18 mc	onths.				
Approac	h (Check all t	that apply):						
\boxtimes	Increase staff – new or existing capabilities							
\boxtimes	Modify the	existing business pr	ocess or create a r	new business process				
	Reduce the	services or level of	services provided					
\boxtimes	Utilize new	or increased contra	cted services					
\boxtimes	Enhance th	e existing IT system						
	Create a ne	ew IT system						
	Perform a b	ousiness-based proc	urement to have v	endors propose a solu	ution			
	Other, spec	cify:						
2.10.4 B	enefit Analys	sis						
Benefits	/Advantages	:						
Accela is	a solution D	CA IT staff have prev	viously assisted in i	mplementing.				
COTS sol	lutions are bu	uilt based on industr	y best practices. In	nplementing a COTS s	olution will enable t	the Programs to		
refine pr	ocesses to m	eet some of these in	ndustry wide best	practices.				
Solution	exists in-hou	ise and could be con	figured to meet bu	usiness program need	S.			
Accola al	the risk of a	lengthy RFP of lever	aged procurement	a components of the	nortal			
	a cloud-base	e of customization		a via leveraged procu	portal.			
Select + t	to add henef	its/advantages			lement.			
Sciect								
Disadvar	ntages							
Accela is	a COTS solut	tion. COTS solutions	cannot be custom	ized easily or at a low	COST			
Similar to	o Breeze, Acc	cela is not an open a	rchitected platforr	n type solution, which	n limits the ability fo	or the system to		
	rams will be	reliant on a vendor	s in real-time. to make requester	d changes to the softw	vare bevond in-hou	use administrator		
function	s if husiness	rules change	to make requested	a changes to the soltw	vare, beyond in-nou			
Select + 1	to add disady	vantages						
		Anticipated	Time to Achieve (Objectives After Proje	ect Go-Live			
			Objective	Timeframe				
Obje	ective	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years		
Nur	mber	_	_	_	_	_		
BHGS: 1	.1 - 3.2							
CAB/LAT	C:1.1-3.1	\boxtimes						
SPCB: 1.	.1 - 3.1	\boxtimes						
CFB: 1.1	- 3.1	\boxtimes						
Select +	to add obje	ectives						
		Anticipated Tim	ne to Achieve Fina	ncial Benefits After P	roject Go-Live			
Financ	ial Benefit	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years		



Incr	eased Revenues								
	Cost Savings								
	Cost Avoidance	\boxtimes							
	Cost Recovery								
2.10	.5 Assumptions and (Constraints							
DCA	assumes additional s	tate and vend	or resources will need	to be brought on b	poard separate from t	he existing staff			
supp	orting each program	•				0			
The	level of effort is presu	umed to be hig	gher as data conversio	n will be needed.					
Sele	ct + to add assumptio	ns/constraints	5						
2.10	2.10.6 Implementation Approach								
Ide	ntify the type of exist	ting IT system	enhancement or new	v system proposed	(check all that apply):				
\boxtimes	Enhance the current	system							
	Develop a new custo	om solution							
	Purchase a Commer	cial off-the-Sh	elf (COTS) system						
	Purchase or obtain a	system from	another government a	agency (Transfer)					
	Subscribe to a Softw	are as a Servio	ce (SaaS) system						
	Other, specify:								
Ide	ntify cloud services to	be leveraged	(check all that apply)	:					
	Software as a Service	e (SaaS) provid	led by OTech						
\boxtimes	Software as a Service	e (SaaS) provid	led by commercial ver	ndor					
	Platform as a Service	e (PaaS) provic	led by OTech						
	Platform as a Service	e (PaaS) provic	led by commercial ver	ndor					
	Infrastructure as a S	ervice (laaS) p	rovided by OTech						
	Infrastructure as a S	ervice (laaS) p	rovided by commercia	al vendor					
	No cloud services wi	II be leveraged	d by this alternative.	Provide a description	on of why cloud servic	es are not being			
	leveraged:								
L.I.a.					- 11 + h - +				
	Agonov (state optity	the existing s	system or create the r	iew system (check	all that apply):				
	Agency/state entity	II SLAII							
	A venuor will be con	liacieu	tabliched with anothe	r acueromental ag	nov Coosify Agonay	n_{2}			
	inter-agency agreen	ient will be es	labiished with anothe	r governmental age	ency. Specify Agency	name(s):			
	Other, specify:								
Ide	Identify the implementation strategy:								
\boxtimes	All requirements wil	l be addressed	l in this proposed proj	ect in a single impl	ementation.				
	Requirements will be	e addressed in	incremental impleme	entations in this pro	posed project.				
	Some requirements	will be addres	sed in this proposed p	project. The remain	ing requirements will	be addressed			
	later.								
	Specify the year when the remaining requirements will be addressed:								
Ide	ntify if the technolog	y for the prop	osed project will be n	nission critical and	public facing:				
\boxtimes	The technology impl	emented for t	his proposed project v	will be considered r	nission critical and pu	blic facing.			
2.10	.7 Architecture Infor	mation							



Business Function/Process(es)		Licensing Examinations Renewal Cashiering Enforcement Reporting License Search				
Select + to add a bu	isiness process with the sam	ne application, sys	tem, or component	t; COTS, MOTS or custom solution;		
runtime environme	nt; system interfaces, data o	center location; a	nd, security.			
Application, System	n or Component	Accela				
		Select + to add a	an application, syste	em, or component.		
COTS, MOTS or Cus	tom	Commerical off-	the-shelf (COTS)			
N	ame/Primary Technology:	Accela				
Runtime Environment	Cloud Computing Used?	🖾 Yes 🛛 No	If "Yes," specify:	Select		
	Server/Device Function	TBD				
	Hardware	TBD				
	Operating System	TBD				
	System Software	TBD				
	S	Select + to add system software				
System Interfaces		DOJ/FBI - Fingerprint Data; FACET (State Accounting); Child Support Services; Franchise Tax Board; Various Scheduled Outbound Files				
Data Center Locatio	on	Commercial data center Commercial data center				
	Other, specify					
Security	Access	oxtimes Public $oxtimes$ Int	ternal State Staff 🛛	🛛 External State Staff		
	(check all that apply)	🗆 Other, specif	y:			
	Type of Information	🛛 Personal 🗌	Health 🗌 Tax 🗌	Financial 🗌 Legal		
	(check all that apply)	🛛 Confidential	\Box Other, specify:			
	Protective Measures	🛛 Technical Sec	urity 🛛 Identity A	uthorization and Authentication		
	(check all that apply)	🛛 Physical Secu	rity 🛛 Backup and	Recovery		
		□ Other, specify:				
Data Management	Data Owner	Name: Kimberl	y Kirchmeyer			
		Title: Director				
		Business Progra	m: DCA			
	Data Custodian	Name: Baird Co	wan			
		Title: Chief Teo	chnology Officer			
		Business Progra	m: DCA OIS			



Select + t	Select + to add business functions/processes						
2.10.1 Sc	olution Typ	e					
🛛 Alter	native						
2.10.2 Na	ame						
BreEZe –	Versa Reg	ulation/Online					
2.10.3 De	escription						
This alter	rnative wou	uld leverage existing	DCA licensing and e	nforcement IT syster	ns currently within D	CA's IT portfolio.	
Approac	h (Check al	l that apply):					
	Increase s	staff – new or existin	g capabilities				
\boxtimes	Modify th	e existing business p	process or create a n	ew business process			
	Reduce th	ne services or level o	f services provided				
\boxtimes	Utilize ne	w or increased contr	acted services				
\boxtimes	Enhance t	the existing IT system	n				
	Create a r	new IT system					
	Perform a	a business-based pro	curement to have ve	endors propose a sol	ution		
	Other, sp	ecity:					
2.10.4 Be	enefit Anal	ysis					
BroE7o s	Auvantage	been maintained by	DCA IT staff for the	soveral vears			
Reduces	the risk of	a lengthy RFP or leve	eraged procurement	options.			
BreEZe's	application	n security would be i	nternally controlled.				
Select + t	o add bene	efits/advantages					
Disadvar	ntages						
BreEZe w	as develop	ed and implemente	d for DCA Programs	with different busine	ess needs than the Bl	MC 2 Programs.	
While so	me busines	ss processes are simi	lar, the Programs ha	ve some unique bus	iness processes. The	State Auditor's	
2014-110	WD UDIQUE	ze system Audit Rep prequirements	ort s recommendati	ons #17 and #18 em	phasize the importan	ice of using the	
BreEZe is	a COTS sv	stem and not an ope	n platform that allow	ws for the integration	n of other custom ap	plications, A COTS	
solution	cannot be	customized easily or	at a low cost.				
Because	OIS staff su	pporting BreEZe sta	ff are 100% dedicate	d to maintenance ar	nd operations tasks f	or the 18	
Programs	s currently	using BreEZe, there	are limitations for st	aff redirection. As a	result of this, there	are additional	
positions	included i	n the FAWs associate	ed with this alternati	ve.			
Select + t	o add disa	dvantages					
		Anticipato	d Time to Achieve O	hiastivas Aftar Drais	et Co Live		
Anticipated Time to Achieve Objectives After Project Go-Live							
Objective Timeframe							
Nun	nber	within T lea	2 10015	JICAIS			
BHGS: 1	.1 - 3.2	\boxtimes					
CAB/LAT	C:1.1-3.1	\boxtimes					
SPCB: 1.	1 - 3.1	\square					
CFB: 1.1	- 3.1	\square					
Select +	to add ob	iectives				<u> </u>	
Sciect	Select + to add objectives						



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	Anticipated Time to Achieve Financial Benefits After Project Go-Live							
Fina	inancial Benefit Within 1 Year 2 Years 3 Years 4 Years Over 4 Years							
Incre	ased Revenues							
	Cost Savings							
(Cost Avoidance	\boxtimes						
	Cost Recovery							
2.10.5	5 Assumptions a	nd Constraints						
BreEZ	.e							
DCA v	vill be constraine	ed in the marketpl	ace to find vendors v	who are familiar wor	king with the Versa	Regulation/Online		
produ	ict, which may n	ecessitate approva	al to conduct a Non-	Competitive Bid (NC	B). While the system	n is currently		
suppo	orted by predom	inantly state IT sta	aff, DCA will have to	temporarily augmen	t staff in order to im	plement any new		
board	/bureau on the l	BreEZe system.						
Select	+ to add assum	ntions/constraints						
2 10 6								
Iden	tify the type of e	visting IT system	enhancement or ne	w system proposed	(check all that apply	<i>/</i>)•		
	Enhance the current system							
	Develop a new c	ustom solution						
	Purchase a Comr	mercial off-the-Sh	elf (COTS) system					
	Purchase or obta	in a system from	another government	t agency (Transfer)				
	Subscribe to a Sc	oftware as a Servic	e (SaaS) system					
	Other, specify:							
Iden	tify cloud service	es to be leveraged	l (check all that apply	y):				
	Software as a Se	rvice (SaaS) provic	led by OTech					
	Software as a Se	rvice (SaaS) provic	led by commercial v	endor				
	Platform as a Ser	rvice (PaaS) provid	led by OTech					
	Platform as a Ser	rvice (PaaS) provid	led by commercial ve	endor				
	Infrastructure as	a Service (IaaS) p	rovided by OTech					
	nfrastructure as	a Service (IaaS) p	rovided by commerc	ial vendor				
	No cloud service	s will be leveraged	by this alternative.	Provide a descriptio	n of why cloud serv	ices are not being		
	everaged:							
نور و او ا	The BreEZe syste	em is housed with	n Tenant Managed S	Servides on DCA-owr	ed equipment.			
Iden	and the second state of th	aity the existing s	ystem or create the	new system (cneck	all that apply):			
	A vendor will be	contracted						
	Inter-agency agr	eement will he est	ablished with anoth	er governmental age	ency. Specify Agenc	v name(s):		
	and agency agen				show opening Agene	,		
	Other, specify:							
Idon	tify the impleme	ntation stratomy						

- All requirements will be addressed in this proposed project in a single implementation.
- Requirements will be addressed in incremental implementations in this proposed project.
- Some requirements will be addressed in this proposed project. The remaining requirements will be addressed later.

Specify the year when the remaining requirements will be addressed:

Identify if the technology for the proposed project will be mission critical and public facing:

The technology implemented for this proposed project will be considered mission critical and public facing.

2.10.7 Architecture Information



Business Function/	Pro	Business Function/Process(es)		Licensing			
Business Function/Process(es)			Renewals				
Business Function /	Pro	cess(es)	Enforcement (i.e	e. Investigations, Ins	spections & Compliance		
Business Function /	Pro	cess(es)	License Mainten	ance			
Business Function /	Pro	cess(es)	Public Facing On	line Portal			
Select + to add a bu	usin	ess process with the sam	e application, sys	tem, or component	t; COTS, MOTS or custom solution;		
runtime environme	ent;	system interfaces, data o	center location; a	nd, security.			
Application, Systen	n or	Component	Applications, Lic	censing and Enforce	ement		
			Select + to add a	in application, syste	em, or component.		
COTS, MOTS or Cus	ston	า	Commerical off-	the-shelf (COTS)			
Ν	lam	e/Primary Technology:					
Runtime Environment	C	loud Computing Used?	🗆 Yes 🖾 No	If "Yes," specify:	SelectSelect		
	5	Server/Device Function	Windows/Unix VMware				
		Hardware	Simplivity and Oracle				
		Operating System	Unix and Windows				
		System Software	Apache Linux/Apache Tomcat/AWS PostgreSQL RDS				
		S	Select + to add system software				
System Interfaces			FACET, DCA License Search, DOJ/FBI, Various Outbound files				
Data Center Locatio	on		State data center operated by department of Technology				
		Other, specify					
Security		Access	🛛 Public 🖾 Int	ernal State Staff	External State Staff		
		(check all that apply)	□ Other, specify:				
		Type of Information	\boxtimes Personal \square	Health 🗆 Tax 🗆	Financial 🗌 Legal		
		(check all that apply)	oxtimes Confidential	\Box Other, specify:			
		Protective Measures	🛛 Technical Sec	urity 🛛 Identity A	uthorization and Authentication		
		(check all that apply)	Physical Secu	rity 🛛 Backup and	Recovery		
			Other, specify	y:			
Data Management		Data Owner	Name: Kimberl	y Kirchmeyer			
			Title: Director				
		Business Program	m: DCA				
Data Custodian			Name: Baird C	Cowan			
			Title: Chief Te	chnology Officer			
			Business Progra	m: DCA OIS			
		-					



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Select + to add business functions/processes.

2.11 Recommended Solution

2.11.1 Rationale for Selection

The recommended solution for addressing the Programs' business needs is a SaaS solution which is being used for BMC 1, called inLumon. BMC 2 Programs will purchase separate licenses and intances of the software. InLumon is fully hosted and maintained in a cloud environment. Each program would pay a per-user license fee for the number of subscribed internal users and a separate fee structure for external users. The benefit of using a SaaS subscription cloud offering is the built-in security to protect data and applications, and is considered the most desirable option.

A procurement for the solution will be leveraged for subscriptions and external users. We will utilize a partner vendor who has successfully tested and implemented a process that meets our milestone approach and timelines. This alternative was chosen because it is likely to be the best value to each Program and DCA. The recommended solution was deemed to be the best fit considering the degree to which the solution satisfies the business objectives, leverages existing marketplace technology, provides an acceptable timeframe for implementation, and aligns with the Programs', DCA, CDT, and the State of California's IT strategic direction.

The recommended solution was weighed against other alternatives and it was determinded to be the lowest risk for meeting scope, schedule, and budget. Additionally it would provide a solid foundation for extensibility and adaptability in meeting the future business needs of DCA.

This solution requires three limited term augmentation staffing for the Programs and five permanant augmentation of staffing for IT services. The SaaS solution alternative and its ability to be customized or augmented to interface in real-time with other software application provides the most flexibility in the short term and long term for Programs to meet all of their business objectives, including a significant increase in the ability to interact with applicants, licensees, and consumers via an online portal.

Attachment: 2.11.2 App C Tech Complexity v1.1

2.11.2 Technical/Initial CA-PMM Complexity Assessment					
Complexity	,			Complexity Zone	
		Z	one l	Low Criticality/Risk	
Technical Complexity Scor	re: 1.0	□ Z	one II/III	Medium Criticality/Risk	
			one IV	High Criticality/Risk	
2.11.3 Procurement and S	Staffing Strategy				
Activity					
System Integrator Consulta	nt Solicitation				
				Cost Estimate	
Responsible	When Need	ed		Verification	
(check all that apply)	(check all that a	apply) (check all that apply)			



 Agency/state entity staff STP staff CDT Project Approvals and Oversight staff CA-PMO staff DGS staff Contractor Other, specify: 	 Stage 3 Solution Development Stage 4 Project Readiness and Approval After project is approved (after Stage 4 Project Readiness and Approval) 	 ☑ Mar □ Cost □ CDT □ DGS □ Require ☑ Coment ☑ Coment ☑ Leve 	Market research conducted (MR) Cost estimate provided (CE) CDT CE DGS CE Request for Information (RFI) conducted Comparable vendor services have been used on previous contracts (CV) Leveraged Procurement Agreement (LPA)			
Procurement Vehicle	RFP/ITMSA solicitation perform CDT	ned by	Contract Type	Time and Materials		
If "Other," specify:			If "Other," specify:			
Activity Software Procurement						
			Cost Estimate			
Responsible	When Needed		Verification			
(check all that apply)	(check all that apply)		(check all that ap	ply)		
⊠ Agency/state entity	□ Stage 3 Solution	🛛 Mar	Market research conducted (MR)			
staff	Development	\Box Cost estimate provided (CE)				
⊠ STP staff	□ Stage 4 Project					
CDT Project Approvals	Readiness and	🗆 DGS CE				
and Oversight staff	Approval	Request for Information (RFI) conducted				
\Box CA-PMO staff	After project is		\Box Comparable vendor services have been used on previous			
	approved (after Stage 4		contracts (CV)			
	Project Readiness and		∇ Loveraged Product Agreement (LDA)			
	Approval)		2 Leveraged Procurement Agreement (LPA)			
Other, specify:						
Complete Only if Contract	or Responsible for Activity	- 1				
Procurement Vehicle	Software Licensing Program (SI	_P)	Contract Type	Fixed Price		
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.		
Activity Project Manager Consulta	nt, and Independent Validation	and Ver	ification Consultant			
			Cost Estimate			
Responsible	When Needed		Verification			
(check all that apply)	(check all that apply)		(check all that ap	ply)		
🖾 Agency/state entity	☐ Stage 3 Solution	🛛 Mar	ket research conducted (MR)			
staff	Development	🗆 Cost	estimate provided (CE)			
□ STP staff	Stage 4 Project		CE			
□ CDT Project Approvals	Readiness and	\Box DGS	□ DGS CE			
and Oversight staff	Approval	🗆 Rea	uest for Information (RFI) cond	ucted		
CA-PMO staff	After project is		parable vendor services have l	been used on previous		
DGS staff	approved (after Stage 4	cont	tracts (CV)			
\Box Contractor	Project Readiness and		araged Procurement Agreement	nt (I DA)		
\Box Other specify:	Approval)		ragea i rocurement Agreellier			



Complete Only if Contractor Responsible for Activity						
Procurement Vehicle	Request for Offer/Information Technology Consulting Services (ITMSA) performed by DCA	Contract Type Time & Materials			S	
If "Other," specify:	Click here to enter text.	If "Other," spe	ecify:	Click text.	here to er	nter
Select + to add activities.						
					Yes	No
Will any of the activities i that will be over the Age	dentified above result in a competitive on http:/state.entity's DGS delegated purchas	r non-competit ing authority?	ive solicitation		\boxtimes	
2.11.4 Enterprise Arch	itecture Alignment					
The recommended soluti	on provided in this document aligns with	DCA's enterpr	ise architecture			
	Information Technology (Capability Table	•			
			Existing Enter Capability to	prise be	New Ent Capab	erprise ility
Information Technology	Capability		Leverage	d	Need	led
Public or Internal Portal/	Website				\boxtimes	
Public or Internal Mobile	Application				\boxtimes	
Enterprise Service Bus					\boxtimes	
Identity and Access Mana		\boxtimes				
Enterprise Content Mana capabilities)	nd eForms					
Business Intelligence and		\boxtimes				
Master Data Managemer	nt				\boxtimes	
Big Data Analytics					\boxtimes	



2.11.5 Proj	ject Phases	
Phase	Initiation	
	Description	Phase Deliverable
In the initiat project was Program ow	tion phase, project need was determined and defined. The project stakeholders and vners were identified and the scope of the	-As-Is process maps with narratives -To-Be process maps with narratives -Stage 1 Business Analysis
business cas solution wa OIO, were p rengineerin mapping, ar	se for a new licensing and enforcement s documented. Business activities with DCA's performed to provide business process g, as-is process mapping, could-be process nd development of stakeholder requirements.	-Requirements Traceability Matrix
Phase	Phase Planning, Analysis, and Procurement	
	Description	Phase Deliverable
The project requiremen project time develop a ro supplemen in the subr additional procureme	planning and approval phase will include ats refining, use case refining, high level eline, and PAL completion. This phase will oadmap of activities to follow. A ntal procurement plan has been included mission as an attachment to provide details regarding anticipated ents.	 PAL artifacts Mid-Level Solution Requirements Use Case Refinement Market Research Project plan and scope Project budget Project Management Plans There will be procurement planning and documentation finalized for all the contracts and agreements related to this proposal. Deliverables will include: State approved solicitation documents for System Integrator and Software contracts Leveraged agreements for additionally needed consultants.
Phase	Sprint Planning	
	Description	Phase Deliverable
This is the p individual S goals furthe The require traceability tracking too Any softwar infrastructu the Project participants Owners, Spe etc.) to revis developmen understand Phase	bhase where the project backlog and detailed print goals will be developed. These Sprint er develop the requirements into User Stories. ments will be loaded into a requirements tool, from which a User Story and a Defect of can link back directly to the requirements. re dependencies, system access, and technical are needs will be identified and integrated into Schedule. Initial orientation meetings with is in the development process (e.g., Product onsors, Project Manager, Project Director, ew key requirements of the Agile nt process will occur to solidify an ing of roles and responsibilities.	 Sprint/Requirements Backlog Updates to Project Management Plans, including System Development, Training, Testing Management Plans, and the Project Schedule
Pliase	Description	Photo Doliverable
	Description	riase Deliverable



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Sprint execution will be an iterative phase where the entire project team will repeat the same tasks and steps multiple times throughout the project phase to implement all requirements, User Stories, and remediate defects. Each Sprint will include a review of the User Story inventory to ensure sufficient detail and acceptance criteria exist to complete development, unit testing, a Product Owner functionality review/testing session, migration of User Stories and Defect remediations to a dedicated testing environment where vendor and state acceptance testing can occur, a production implementation plan, and Sprint Opening and Closing Ceremonies. Daily Scrum Meetings will occur each day and include state and vendor staff to check in on assignments, progress, and any existing impediments. Contingent upon planning, multiple Sprints may be required per Milestone, so an additional regression testing effort outside of the testing occurring in each Sprint will likely be necessary.

While the State and Vendor team will be functioning as a team throughout the Sprint Execution phase, some tasks will be owned by the State and others owned by the Vendor. For example, the vendor will own the development, configuration deployment, and unit/system testing tasks. The state will own the User Story review and state acceptance testing tasks. Other tasks will be a collaboration of vendor and state ownership. These responsibilities and roles will be further defined in the respective project plans



Description

As soon as a group of User Stories is migrated to production after the Milestone 1 (i.e., MVP), Maintenance and Operations will begin. This is because once some form of software is in production, it will be anticipated that minor requests for enhancements to current production functionality may be requested in subsequent project releases. Maintenance and Operations will follow a similar Agile sprint based methodology as the project phase; however, the volume of system change is anticipated to be far less than during the project phase. During Maintenance and Operations, the Agile methodology will continue to be used, but frequency of deployments to production may decrease. This phase will also include an emphasis on completing knoweldge transfer between vendor and state staff so that upon conclusion of the system integrator contract, the state can fully maintain the system.

- Sprint Packages, which include the following work products: sprint backlog, product increment, acceptance criteria, sprint test scripts, sprint test results, sprint status report, sprint business processes, sprint training package, and testing instructions.
- Updates to Testing Management Plan
- Updated Project Schedules
- Monthly Status Reports
- Training Documentation
- Presentation materials in support of major Sprintrelated meetings.

Phase Deliverable

- Updates to Maintenance and Operations Plan
- Maintenance and Operations Report
- Updates to Knowledge Transfer Processes



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Phase	Project Closeout				
Description		Phase Deliverable			
This phase will include activities comprising of administrative closure and project close out. Requirements will be traced to ensure the integrator and software provider implemented all required functionality. Lessons learned activities will commence. The initial drafting of the post implementation evaluation review (PIER) will commence.		 Lessons learned PIER 			
Select + to add project phases.					
2.11.6 High Level Proposed Project Schedule					
Proposed Pr Date:	oject Planning Start	12/1/2019	Proposed Project Plan End Date:	ning 6/30/20	021
Proposed Pr	oject Start Date:	7/1/2021	Proposed Project End Date:	1/30/20	023
Activity Nan	ne			Start Date	End Date
Stage 3 Solution Development			3/2/2021	5/17/2021	
Stage 4 Project Readiness and Approval			5,	/18/2021	7/1/2021
Milestone 1			7,	/2/2021	1/10/2022
Project Close	eout		1,	/11/2022	1/30/2023

Development, testing, training, deployment, and go-live for internal and external users is the delivery expectation for each milestone. All of the above are subject to change throughout the PAL Stages

2.11.7 Cost Summary	
Total Proposed Planning Cost:	\$724,861
Total Proposed Project Cost:	\$11,784,861
Total Proposed Future Operations IT Staff & OE&E Costs (Continuing):	\$5,327,689
Total Proposed Annual Future Operations IT Costs (M&O):	\$1,310,049
2.12 Staffing Plan	
2 12 1 Administrative	



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DCA and the Programs will provide the following staff for the administrative needs of the project:

1. Project Manager (DCA OIS) -The project manager (PM) will have experience with project implementation and will manage the project from initiation to closing. The PM will ensure that the project team completes the project for their designated functions. The PM will facilitate the development of project plans, manage the contractor's performance of project tasks, and communicate with control agencies. The PM secures acceptance of deliverables from the project sponsor and stakeholders. The PM is responsible for communication, including status reporting, risk management, and escalation of issues that cannot be resolved by the project team.

2. Procurement Team (CDT, DCA Contracts, DCA OIS, and Programs) - The procurement team will include CDT's Procurement Division, DCA Contract experts, DCA OIS experts, and management from each program. The procurement team will develop the Procurement Management Plan in accordance with CDT guidelines and will facilitate approval. The procurement team will review the solicitation document(s) and submit the final version(s), as appropriate, based on the procurement vehicle being utilized. The procurement team will facilitate the evaluation of supplier proposals/offers and will develop the evaluation and selection report and submit it for procurement documentation and to support contract(s) award.

3. Contracts Manager (CDT, DCA Procurement, OIS) -The contract manager is responsible for the oversight of the software solution, System Integrator contracts, and any other contracts supporting the project. The individual will participate in contractor performance reviews by reviewing and evaluating deficiencies, provide interpretation of project contracts to project team, recommend course of action on contractual issues, participate in procurement and contract meetings, monitor contractor deliverables, and monitor, analyze, and mitigate procurement-related risks and issues.

4. IT Support Team (OIS) – The IT support will include experts from OIS that will assist the PM throughout the project and facilitate hardware and software interfacing and connection. The IT Support team will provide legacy system support and conversion through the development and implementation of this project to facilitate a successful transition.

2.12.2 Business Program

Each Program will designate a product owner. The product owners will team with the PM during project development and delivery to test and validate system functions. The product owners will act as the key decision maker on system functionality and will work closely with the PM and vendor team on a daily basis through the project phase.

Additionally, each Program will dedicate one or more SMEs. The SMEs will work with the selected vendor and the PM to implement the solution. The Program's SMEs will be dedicated to the project and will also serve as the system's user acceptance testers and execute testing at the direction of the PM and product owner. Staff experts will also perform data validation activities. In order for this project to be successful, it is required that staff prioritize it and dedicate the time necessary to ensure its completion.

2.12.3 Information Technology (IT)

DCA OIS will assign support resources to work with the vendor and Programs to address workstation related issues encountered when accessing the proposed solution via a web browser from DCA workstations. The resources will have experience with DCA's computer workstation configurations, web browsers, and security configurations. The IT resources will be available throughout the project lifecycle to address workstation issues.

2.12.4 Testing



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All product owners and SMEs will act as testers. Under guidance of the project manager and informed by the vendor's expertise, the testers will participate in software requirements meetings, as needed, to understand the business and functional requirements that the software must meet. They will perform testing based on the test plan and document any issues in a defect and enhancement tracking tool. Once the issue has been resolved, the testers will re-test and declare it fixed or report it again until the requirement has been successfully tested.

2.12.5 Data Conversion/Migration

DCA OIS staff, the product owners, and staff experts will participate in data conversion activities with the System Integrator. The supporting activities related to data conversion (e.g., data mapping, data mapping review, and data validation) will be completed by the Programs with the coordination and support of OIS resources and additional contractor resources.

2.12.6 Training and Organizational Change Management

Training for the recommended solution will be conducted by the vendor and included in the procurement contract. The vendor will work with the product owners and/or SMEs and PM to train program staff on how to utilize the software. DCA's OIO will supplement the vendor provided training and provide on-site support and business process documentation as necessary to mitigate any business process change issues.

2.12.7 Resource Capacity/Skills/Knowledge for Stage 3 Solution Development

For Stage 3 Solution Development, OIS and DCA's procurement staff have robust experience in dealing with the procurement vehicles identified for this project. Aside from leading the procurement phases of two large projects with similar scope (BreEZe, Accela and InLumon), OIS and DCA have successfully executed the purchase of many items off of leveraged procurement agreements. Furthermore, have also executed many CMAS contracts for IT services.

2.12.8 Project Management

2.12.8.1 Project Management Risk Assessment

Project Management Risk Score:

Attachment: 2.12.8.1 App A PM Risk v1.0

2.12.8.2 Project Management Planning

Are the following project management plans or project artifacts complete, approved by the designated Agency/state entity authority, and available for Department of Technology review?

1

Project Charter	No	Draft in progress
Scope Management Plan	No	Draft in progress
Risk Management Plan	No	Draft in progress
Issue and Action Item Management Plan	No	Draft in progress
Communication Management Plan	No	Draft in progress
Schedule Management Plan	No	Draft in progress
Human Resource Management Plan	No	Draft in progress
Staff Management Plan	No	Draft in progress
Stakeholder Management Plan	No	Draft in progress
Governance Plan	No	Draft in progress

2.12.9 Organization Charts

Attachment: 2.12.9 BMC 2 Org Chart

2.13 Data Conversion/Migration

Identify the status of each of the following data conversion/migration activities:

Data Conversion/Migration Planning	Not Started	Data Quality Assessment	Not Started
Data Conversion/Migration Requirements	Not Started	Data Quality Business Rules	Not Started



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Current Environment Analysis	Not Started	Data Dictionaries	Not Started
Data Profiling	Not Started	Data Cleansing and Correction	Not Started

2.14 Financial Analysis Worksheets

Attachment: F.2-Financial-Analysis-Worksheets_BMC2_v1.4

Preliminary Assessment – Department of Technology Use Only		
Original "New Submission" Date	2/3/2020	
Form Received Date	2/18/2021	
Form Accepted Date	2/18/2021	
Form Status	Complete	
Form Status Date	4/1/2021	
Main Form – Department of Technology Use Only		
Original "New Submission" Date	2/3/2020	
Form Received Date	2/18/2021	
Form Accepted Date	2/18/2021	
Form Status	Complete	
Form Status Date	4/1/2021	
Form Disposition	Approved	
Form Disposition Date	4/1/2021	