

Stage 2 Preliminary Assessment

2.	2.1 General Information								
Ag	ency or State Enti	ty Name:							
	partment of Moto	or Vehicles							
	ganization Code:								
274									
	Proposal Name:								
	Legacy Systems Stabilization (formally known as FES)								
	Department of Technology Project Number: 2740-218 2.2 Preliminary Submittal Information								
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	Contact First Nam			Contact Las	t Na	me.			
	Brenda			O'Brien	i ita	ilie.			
	Contact Email:			Contact Pho					
	Brenda.Obrien@d			(916) 657-71		asses and Tra			
	eliminary Submissi	on Date:		Preliminary See Attacks			ansmittal:		
	/13/2020	main aug c A		See Attachi	nen	I			
	3 Stage 2 Preli		ssessment						
2.3	.1 Impact Assessi	nenr						Yes	No
1.	Has the Agency	(state entity	videntified and	I committed	subi	ect matte	r experts	ES	
1.	1. Has the Agency/state entity identified and committed subject matter experts from all business sponsors and key stakeholders?								
2.	Are all current bo	•		•				×	
	documented an	•	_				_		
	agreements, priv			_					
2	diagram, data d								
3.	Does the Agence Department of To	•	•	•					\boxtimes
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	Information)?			(• , , .				
4.	Does the Agenc	y/state enti	ty anticipate su	ubmitting a b	oudg	et reques	t to	X	
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5.	Could this propo		•	•		•			\boxtimes
	support activities						ia (FI\$Cal)		
	(e.g., financial approcurement/ord						nt12		
6	Does the Agenc							\boxtimes	
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	Architect to lead the development of baseline and alternative solutions architecture descriptions?								
7.	Will the Agency/	state entity	's Information S	Security Offic	er b	e involved	I in the	\boxtimes	
	development and review of any security related requirements?								
8. Does the Agency/state entity anticipate performing a business-based							\boxtimes		
	procurement to have vendors propose a solution?								
2.3	3.2 Business C	omplexit	y Assessme	nt					
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	Complexity:	1.1	Zone:		Ш	riigii	M MEGIOTI		v v



2.4 Submittal Information						
Contact Information:	Contact Information:					
Contact First Name:	Contact Last Name:					
Brenda	O'Brien					
Contact Email:	Contact Phone:					
Brenda.Obrien@dmv.ca.gov	916-657-7167					
Submission Date:	Project Approval Executive Transmittal:					
11/13/2020	See Attachment					
Submission Type:						
☐ New Submission	☑ Updated Submission (Post-Approval)					
☐ Updated Submission (Pre-Approval)	☐ Withdraw Submission					
	Reason: Other					
	If "Other," specify:					
	FES project evolved into separate efforts;					
	Stabilization (LSS) and DMV Modernization (DXP) of					
	legacy systems.					



Sec	tions Updated (For Upda	ated Submissions Only) – (c	heck	all that apply)
\boxtimes	2.1 General Information			□ 2.10.6 Implementation Approach
2.2 Preliminary Submittal Inforn2.3 Stage 2 Preliminary Assessn		formation		□ 2.10.7 Architecture Information
		essment	\boxtimes	2.11 Recommended Solution
	□ 2.3.1 Impact Assessment	t		\square 2.11.1 Rationale for Selection
	☐ 2.3.2 Business Complexit	y Assessment		□ 2.11.2 Technical/Initial IT Project Oversight Framework
\square	2.4 Submittal Information	,		Complexity Assessment
		I Cyanta man		2.11.3 Procurement and Staffing Strategy
	2.5 Baseline Processes and	i systems		☐ 2.11.4 Enterprise Architecture Alignment
	□ 2.5.1 Description			2.11.5 Project Phases
	□ 2.5.2 Business Process We			□ 2.11.6 High Level Proposed Project Schedule
	□ 2.5.3 Current Architectu		_	2.11.7 Cost Summary
	□ 2.5.4 Current Architectu	=		2.12 Staffing Plan
	☐ 2.5.5 Security Categorize			□ 2.12.1 Administrative
	2.6 Mid-Level Solution Req			□ 2.12.2 Business Program
	2.7 Assumptions and Cons	traints		□ 2.12.3 Information Technology (IT)
	2.8 Dependencies			☐ 2.12.4 Testing
\boxtimes	2.9 Market Research			□ 2.12.5 Data Conversion/Migration
	≥ 2.9.1 Market Research N	Methodologies/Timeframes	S	2.12.6 Training and Organizational Change Management
	≥ 2.9.2 Results of Market R	esearch		□ 2.12.7 Resource Capacity/Skills/Knowledge for Stage 3 Solution Development
\boxtimes	2.10 Alternative Solutions			
	\boxtimes 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			
	☐ 2.10.3 Description		\boxtimes	2.13 Data Conversion/Migration
	□ 2.10.4 Benefit Analysis			2.14 Financial Analysis Worksheets
	\square 2.10.5 Assumptions and	Constraints		
Sumi	mary of Changes:			
Con	dition(s) from Previous	Stage(s):		
	ndition #			
Со	ndition Category	Select		
	Other, specify	••••		
Со	ndition Sub-category	Select		
	Other, specify	••••		
Condition				
Assessment Select				
Other, specify				
Ag	ency/state Entity			
	ponse			
Sta		Select		
	Other, specify			
Selec	ct + to add conditions.			



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2.5 Baseline Processes and Systems

2.5.1 Description

The California Department of Motor Vehicles (DMV) is responsible for the provisions of the California Vehicle Code (CVC), Code of Regulations, federal mandates and policies that relate to ownership, issuance of title, licensing, and registration of vehicles, trailers and vessels. Pursuant to that responsibility, DMV registers and titles more than 36.4 million registered vehicles in the state, as well over 700,000 vessels. In addition to annual renewal of vehicles and biennial renewal for vessels, the department processes approximately 5 million transfers of ownership and 2.5 million new original registrations per year. These transactions are conducted in the DMV Automation (DMVA) system which is the subject of this report.

Key Business Processes

1. Vehicle Registration (VR)

Key business processes relating to the vehicle registration program include:

- Vehicle and vessel registration and titling
- Revenue to State and Local Governments
- Compliance with Federal, State and Local Mandates
- Financial Responsibility (Insurance), Safety Recalls, and Tax Compliance
- Special Plate Programs
- Collection of Delinquent Accounts, Unpaid Parking/Toll Violations, Dishonored Checks/Credit Card Payments
- Collection and distribution of fees for both VR and Driver License programs through the Control Cashier process.

The DMV is also responsible for the provisions of CVC, Code of Regulations, and policies that pertain to occupations and industries related to vehicles. For example, DMV issues more than 68,000 motor carrier permits annually.

2. Business Partners

DMVA also serves as the primary interface for participants in the Business Partner Automation (BPA) program. These are licensed entities authorized to act in place of the department for select VR transactions. The BPA program processes approximately 7.5 million various vehicle related transactions per year. BPA participants pay a \$5 transaction fee for each completed registration transaction, currently generating \$32 million in annual revenue for the Motor Vehicle Account. (Note: Approximately 6.5 million BPA transactions were charged \$5 fee. The other 1 million transactions were not completed and therefore not subject to the fee).

3. Occupational Licensing

Key business processes relating to the occupational licensing programs include:

- Manufacturers of vehicles
- Vehicle dealers and salespersons
- Registration Services
- Vehicle transporters
- Dismantlers



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- Driving schools and instructors
- Traffic schools and instructors:
- Investigating consumer complaints relating to individuals and organizations involved in motor vehicle industries; and,
- Initiating administrative and legal remedial actions against non-compliant individuals and organizations in motor vehicle industries.

4. Control Cashiering (CC)- Accounting

DMV collects over \$12.1 billion in fees annually, which includes all revenue received through the field offices, self- service kiosks, renewal transactions by mail, Internet payments, Franchise Tax Board receipts, Business Partners (BPs), and Auto Clubs (e.g. AAA). The majority of the fees are collected through the issuance and renewal of vehicle registration. Approximately 86 percent of the funds DMV collects are distributed to local governments, law enforcement, and a wide variety of state agencies. Administration of the programs and processes to manage the workload associated with the collection and distribution of funds relies primarily on the DMVA system that supports them. A significant portion of the fees DMV collects is dependent on DMVA systems for accurate accounting.

Key Systems Impacted

The above referenced Business processes are supported by the impacted DMVA Vehicle Registration and Control Cashier (VR/CC) system currently running on IBM pSeries (AIX) at the DMV headquarters complex and field offices throughout the State. The DMVA system was initially installed in 1983 with IBM Series/1 processors using the Event Driven Executive (EDX) operating system. The VR/CC front-end applications which include DMV's BPs and Auto Clubs (ACs) were written in the Event Driven Language (EDL) programming language. After IBM discontinued manufacturing the Series/1 processor and support of EDX, DMV replaced the processors in 1998 with RS/6000s using Series/1 emulation.

The application suite that constitutes DMVA consists of more than 487 EDL programs with approximately 1.5 million lines of code. The online interface and printed correspondence are supported by approximately 659 panels and document volumes. The panels control the work flow navigation for the online interface, and the document volumes are templates for printed materials generated from the application.

The DMVA system is not only the primary processing platform for BPs, ACs, DMV field offices and Headquarters, but also a communication path to and from the principal databases of DMV. As such, the system is a user interface that communicates with DMV databases through the communications processing system California Motor Vehicle Data Communications System (CAMVDCS). VR is linked to a batch process that runs volumes of transactions on daily intervals. However, DMVA is more than just a user interface or simple application server because a significant amount of business logic for VR and Control Cashiering is maintained within DMVA. Update transactions are routed to CAMVDCS as online or batch transactions, and from there the master data records are updated on the Automated Management Information System (AMIS) data Binary Large Object (BLOB) in DB2 database housed on a mainframe at the OTech Data Center. The scope of the solution does not include restructuring databases and the replacement of CAMVDCS.



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The LSS project will perform the incremental upgrades to outdated and unsupported hardware and software; thereby, reducing the risk of catastrophic failures. This project will enable the Department to address external mandates and maintain DMV service delivery to Californians, while preparing for the DMV Modernization effort.

In collaboration with CDT, DMV is revising the original FES S2AA documentation to support the LSS vision and scope.

2.5.2 Business Process Workflow Attachment: See Attachment 2.5.3 Current Architecture Information Vehicle Registration, Driver Licensing, DMVA, EASE, CAMVDCS Business Function/Process(es) Select + to add a business process with the same application, system, or component; COTS, MOTS or custom solution; runtime environment; system interfaces, data center location; and, security. Application, System or Component DMVA System COTS, MOTS or Custom Custom application Name/Primary Technology: Event Driven Language (EDL) Series 1 Runtime Cloud Computing If "Yes," specify: The Infrastructure as a Environment system monitoring Used? Service (laaS) (Splunk) will be hosted on AWS for production. The HATS for DMVA browser Front-End access will production will be hosted on AWS. Server/Device IBM pSeries (AIX) Function Hardware IBM pSeries (AIX) (Originally developed on IBM Series/1) Unix AIX, currently out of support (originally developed on IBM Operating System Series/1 EDX) System Software EDX emulator System Software IBM Communications Server (SNA) System Software IBM WebSphere Application Server (WAS) System Software IBM Message Queue (MQ) System Software IBM Rational Host Access Transformation Services (HATS) Select + to add system software. DMV and Auto Clubs staff access DMVA system via terminal System Interfaces screens Business Partners Data Center Location Other, specify In the process of migrating to the State Data Center 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 ☐ Technical Security ☐ Identity Authorization and Authentication ☐ Physical Security ☐ Backup and Recovery (check all that apply) □ Other, specify: Name: Rose Smith Data Management Data Owner

Title: Data Resource Manager



		Business Program: Registration Operations Division					
	Data Custodian	Name: Mainframe	Services DB2 Support				
		Title: Database	Title: Database Administrator				
		Business Program:	Information Systems Di	vision			
Select + to add	business functions/pro	ocesses.					
2.5.4 Current A	2.5.4 Current Architecture Diagram						
Attachment: S	See Attachment						
2.5.5 Security	Categorization Impa	ıct Table					
Attachment: S	See Attachment						
	SECURITY CATE	GORIZATION IMPAG	CT TABLE SUMMARY				
SECURITY	OBJECTIVE	LOW	MODERATE	HIGH			
Confid	dentiality		\boxtimes				
Int	Integrity						
Availability							
2.6 Mid-Level Solution Requirements							
Attachment: Attach file to email submission.							



2.7 Assumptions and Constraints					
Assumptions/Constraints	Description/Potential Impact				
DMVA system is using unsupported technologies.	The EDL programs were originally developed for the IBM Series/1 in Event Driven Executive (EDX) operating system in the 1980's, which now operates under emulation I in the IBM pSeries (AIX) environment. The operating system software and AIX hardware environment is obsolete and unsupported. Upgrades are not possible due to the EDX emulation software the system depends on, can't be upgraded. These factors increase the risk of catastrophic failure and jeopardize DMV's ability to provide essential services to the citizens of California. After the outage in October 2016, DMV is migrating the DMVA systems to managed services at the Department of Technology (OTech). However, the same level of soon-to-beunsupported hardware has to be used. The risk of catastrophic failure goes up as time passes.				
The project budget will be approved.	Without an approved budget, the project will not be able to proceed.				
DMV will work with the California Department of Technology (CDT) and the Department of Finance (DOF) to ensure that funding will be available, as planned, throughout the project's life.	The project will be conducted as a partnership with CDT and DOF whose support is required for the project to be successful.				
Program requirements will not change substantially during project implementation.	Although it is not anticipated, a substantial change in the program requirements may significantly change the scope of the project which could lead to project cost overruns and schedule slippages.				
Higher priority issues will not impact the schedule or resource needs.	A key to the success of the project dictates that key DMV resources are available for the project. Their absence from the project could lead to project cost overruns and schedule slippages.				
Executive sponsorship will continue through project completion.	Constant support from executive sponsorship will ensure resources are continuously available for the project.				
The CDT/DOF will review and approve the project.	The control agencies' support is necessary to start the project and will ensure external influences will not impact the successful completion of the project.				
Qualified DMV program and technical staff will be available to participate, as needed, during the sprints.	The project will not be successful if key program and technical staff are not committed to the successful completion of the project.				



Suppliers, vendors, consultants, and State staff will perform their assignments related to the project in a competent and timely manner. Issues will be resolved and risks mitigated on a timely basis.	Delays by any of the project partners could adversely impact the project schedule.
Issues will be resolved and risks mitigated on a timely basis. The proposed solution shall maintain the ability to process the transactions from business partners systems and have minimal impact to BPs.'	Issues and risks that are not addressed in a timely basis could impact the project scope, budget and/or schedule. The solution shall maintain the ability to process the transactions from Business Partners' systems through American Association of Motor Vehicle Administrators (AAMVA) net (UNI) and Web Services. The solution shall not require changes in business partners' systems, and require minimal training for BP technicians.
The solution shall maintain the ability to provide Auto Clubs front-end applications to process transactions and have minimum impact to Auto Clubs.	The solution shall maintain the ability to provide ACs frontend applications to process transactions, and require minimal training to AC technicians.
CDT will collaborate with DMV as needed. Select + to add	The proposed solution may impact the hardware/software stored or maintained at the CDT Data Center.
assumptions/constraints.	
assumptions/constraints. 2.8 Dependencies	
	Description
2.8 Dependencies	Description Develop a standard for the development tools that the vendors will use during the project. This will ensure that the transition of the technologies is consistent with the DMV knowledge and skills for the ongoing system maintenance and operations once the project is completed.
2.8 Dependencies Element	Develop a standard for the development tools that the vendors will use during the project. This will ensure that the transition of the technologies is consistent with the DMV knowledge and skills for the ongoing system maintenance
2.8 Dependencies Element Development tools	Develop a standard for the development tools that the vendors will use during the project. This will ensure that the transition of the technologies is consistent with the DMV knowledge and skills for the ongoing system maintenance and operations once the project is completed. The testing strategy will serve as a guide to how we verify
2.8 Dependencies Element Development tools Testing strategy	Develop a standard for the development tools that the vendors will use during the project. This will ensure that the transition of the technologies is consistent with the DMV knowledge and skills for the ongoing system maintenance and operations once the project is completed. The testing strategy will serve as a guide to how we verify the major aspects of the solution deployment. The environments for the development, integration testing (IT), system testing (ST), user acceptance testing (UAT), and
2.8 Dependencies Element Development tools Testing strategy Preparing environments	Develop a standard for the development tools that the vendors will use during the project. This will ensure that the transition of the technologies is consistent with the DMV knowledge and skills for the ongoing system maintenance and operations once the project is completed. The testing strategy will serve as a guide to how we verify the major aspects of the solution deployment. The environments for the development, integration testing (IT), system testing (ST), user acceptance testing (UAT), and training if needed to be setup and configured. Gathering and producing the requirements and other artifacts needed for Agile software development is essential in building and testing the DMVA replacement
Element Development tools Testing strategy Preparing environments Requirements and related artifacts	Develop a standard for the development tools that the vendors will use during the project. This will ensure that the transition of the technologies is consistent with the DMV knowledge and skills for the ongoing system maintenance and operations once the project is completed. The testing strategy will serve as a guide to how we verify the major aspects of the solution deployment. The environments for the development, integration testing (IT), system testing (ST), user acceptance testing (UAT), and training if needed to be setup and configured. Gathering and producing the requirements and other artifacts needed for Agile software development is essential in building and testing the DMVA replacement
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2.8 Dependencies Element Development tools Testing strategy Preparing environments Requirements and related artifacts Select + to add dependencies. 2.9 Market Research	Develop a standard for the development tools that the vendors will use during the project. This will ensure that the transition of the technologies is consistent with the DMV knowledge and skills for the ongoing system maintenance and operations once the project is completed. The testing strategy will serve as a guide to how we verify the major aspects of the solution deployment. The environments for the development, integration testing (IT), system testing (ST), user acceptance testing (UAT), and training if needed to be setup and configured. Gathering and producing the requirements and other artifacts needed for Agile software development is essential in building and testing the DMVA replacement system.



	Internet Research			Published Literature
	Vendor Forums/Presentation			Leveraged Agreements
×	Collaboration with other Agencies/state entities or governmental entities			Other, specify: Survey in AAMVA
Time spent conducting market research: Over 1			Yea	r
Date market research was started: 5/3/20			16	
Date all market research was completed: 4/30			2019	
2.9.	2 Results of Market Research			



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The DMV used several different methodologies to perform the market research. DMV officially started the market research on May 3, 2016, but the actual market research effort tracked back to the fall of 2014. Business sponsors, key stakeholders, business analysts and technical staff were involved in the market research and analysis of results.

Market Research Methodologies and Activities:

Collaboration with other Agencies/state entities, governmental entities, and non-profit organization

The DMV developed and published a System Reengineering and Replacement Survey with AAMVA for jurisdictions to complete in May of 2016. AAMVA is a nonprofit organization representing state, provincial, and territorial officials in the United States and Canada who administer and enforce motor vehicle laws. Of the 36 jurisdictions that responded to the survey, 26 of them indicated they have undertaken a major system reengineering or replacement technology project in the past 10 years involving system changes in vehicle registration processing, revenue cashiering and allocation, dealer or registration/tag agent licensing. DMV selected thirteen states from two solution categories – Commercial off-the-shelf (COTS)/ Modified off-the-shelf (MOTS), and custom development to complete a follow-up survey, but received no response. DMV then selected three states to meet with via tele-conference: two states from COTS/MOTS solution category, which are using two different major COTS/MOTS solutions in the market; and one state from custom solution category. A small work group met with representatives from each of the three states to complete the follow-up survey questions.

2. Internet Research

The department conducted internet research on technologies and the movement in DMV system modernization in other states. DMV also studied numerous publicly available procurement documents of other states on DMV system modernization.

3. Vendor Forums/Presentation

Fast Enterprise and Tech Mahindra made presentations regarding their COTS DMV system solutions. The implementation strategies were discussed during the meeting. The products displayed vast functionalities and usability. The department has also discovered the following:

- a. The business process and workflow in the COTS solutions are quite different from the department's current business processes and workflow. If the department chooses a COTS solution, it needs to document the existing business processes and requirements in detail, and conduct gap analysis. For the difference of each business process or requirement, the department has to make a decision on either customizing the COTS product to meet our requirement, or re-engineering our business process.
- b. Data cleansing and migration is needed to adopt the COTS solution.
- c. The incremental deployment with phased approach will help alleviate the impact and risk in certain level, but the overall risk and magnitude of impact are huge.
- d. All the internal and external applications/systems conducting certain functions of VR and Revenue cashiering/distribution or interfacing with current VR and CC system need to be assessed and handled –retired, replaced, or migrated to the COTS solution.



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4. Published Literature

The department studied the System Modernization Best Practices document published by AAMVA's System Modernization Working Group in May of 2017. This document drew on the expertise in motor vehicle agencies and industry. It provides a roadmap to assist those in or about to begin their modernization journey. Below are some key points from the document:

- a. System modernization projects require commitment at every level of government and necessitate a significant investment in time, money, and resources.
- b. There is no one-size-fits-all solution. Take the time to research out other jurisdictions who have system modernization experience.
- c. System modernization program efforts include multiple projects, each supporting an element of the vision. Separate efforts may include a data cleansing project, a BPR project, and an infrastructure modernization project, to name a few.
- d. Data cleansing efforts, inherently tied to data migration, should be considered similar in size to the modernization effort.

Summary:

Here are the findings based on the information collected from survey, Internet research, and outreach.

Table 1 shows the DMV system modernization status of the top 9 states in the past 10 years.

State	Motor-Vehicles Registration Total (2015)	Population (2016)	Modernization Status and Solution
California	29,424,012	39,250,017	Under project approval life cycle
Texas	21,864,841	27,862,596	Custom Solution
Florida	16,105,008	20,612,439	Custom Solution
New York	10,638,765	19,745,289	Issued System Modernization Request for Information (RFI) on 6/12/17
Pennsylvania	10,598,694	12,784,227	Custom Solution
Illinois	10,595,254	12,801,539	NO
Ohio	10,438,591	11,614,373	Custom Solution
Michigan	8,294,108	9,928,300	Custom Solution, contract terminated
Georgia	8,137,621	10,310,371	Under procurement

Table 2 shows 11 states that selected COTS/MOTS solution for vehicle registration processing, revenue cashiering and allocation.



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Table 2. States Using COTS/MOTS Solution in DMV System Modernization in the Past 10 Years*
State Motor- Vehicles Reaistration Total (2015) Population (2016) Vendor

State I	Motor- Vehicl	les Registration To	otal (2015)	Population
Washington	6,725,467	7,288,000	Fast Enterprise	es
Colorado	5,005,172	5,540,545	Fast Enterprise	es
Connecticut	2,841,764	3,576,452	3M*	
Oklahoma	2,988,512	3,923,561	Fast Enterprise	es
Nevada	2,316,056	2,940,058	Tech Mahindr	ra
Kansas	2,634,856	2,907,289	3M*	
Arkansas	2,772,214	2,988,248	Fast Enterprise	es
Utah	2,229,193	3,051,217	Fast Enterprise	es
Mississippi	2,068,853	2,988,726	Fast Enterprise	es
New Mexico	1,823,445	2,081,015	Fast Enterprise	∋s
New Hampsh	ire1,296,137	1,334,795	Tech Mahindr	a

^{*3}M's contract with Connecticut was terminated, and the project with Kansas reported a schedule delay.

Table 3 shows brief information of the three states selected for follow-up.

S	olution Type V	endorCore Bus	siness Function Sup	ported Details	of Solution
	Washington	COTS/MOTS	Fast Enterprises	Vehicle Registration, Driver License, and Revenue cashiering and allocation.	Based on N-tier Architecture and Microsoft technologies: .NET, SQL Server and Windows Server.
	Nevada	COTS/MOTS	Tech Mahindra	Vehicle Registration, Driver License, Revenue cashiering and allocation.	Based on COTS Motor Vehicle Enterprise Solution (MOVES) platform, core technologies are Oracle/Siebel/CRM/LINUX
	Texas	Custom Development	Deloitte	Vehicle registration titling, permits, and Revenue cashiering and allocation.	No new business functions. Refactoring both Front-end and back-end from client/server technology, ADABAS, and Natural to Java and DB2.

Texas Department of Transportation:

Texas is the second largest state in United States in terms of population. The Texas Department of Transportation (DOT) is responsible for the initial registration, renewal registration and vehicle title transfers for Texas citizens. The Texas Department of Public Safety (DPS) issues and renews driver licenses and Identification (ID) cards.



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In 2013, Texas DOT began a "refactoring" project with custom development to modernize the Registration and Titling System (RTS) by converting the system from Natural and ADABAS to Java and DB2 without adding new business functions, along with transitioning the RTS from a mainframe to a more modern platform. The vendor is Deloitte. This project targets to complete by December 2018. The total project cost is \$71 million, in which \$62 million is contract/consultant services costs. The project has two phases:

- 1. Focus on the front-end, and implement front-end web client using jobs
- 2. Convert and deploy the back-end all at the same time

Nevada Department of Motor Vehicles:

Nevada ranked 37th in the state population in 2016. The Nevada DMV's System Modernization Project will replace the existing and aging Common Business Oriented Language (COBOL) mainframe and PowerBuilder applications running on disparate platforms with an integrated application that runs on a consolidated platform. The modernized solution provides services to support the following key business functions: Titling, Registration, Drivers Licensing, Permits, International Registration Plan (IRP), International Fuel Tax Agreement (IFTA), Occupational and Business Licensing, Financials and Inventory. The selected solution for Nevada DMV System is a MOTS solution based on Tech Mahindra's Motor Vehicle Enterprise Solution (MOVES) on Oracle COTS platform with the core components of Siebel Custom Relationship Management (CRM), Business Process Management and Oracle database. This solution is based on high-end and specially engineered server hardware from Oracle. The total project implementation cost is \$98 million (not including state staff, miscellaneous and facility operation costs), in which \$28 million is data cleansing/migration cost, and \$55 million is the development cost to vendor Tech Mahindra, and \$15 million for agency infrastructure.

The project started in July 2015, and is estimated to take approximately five years. The system will be implemented and deployed in 3 phases:

- 1. Occupational and Business Licensing, Financials and Inventory, and data conversion of all customer data
- 2. Vehicle Registration and titling, IRP
- 3. Driver's License, Audit

Washington Department of Licensing:

Washington ranked 15th in the state population in 2016. The Washington Department of Licensing (DOL) awarded a contract to Fast Enterprises, LLC (FAST) through sole-source procurement in January 2015. FAST will provide its COTS FastDS-VS software and associated support services, including legacy-data conversion, software configuration, user training, and system testing. The Washington DOL will use FastDS-VS to manage vehicle titling and registration as well as driver and professional licensing programs.

This project has a two-year process for the data migration. It has two phases, and both phases include Business Process Re-engineering (BPR):

- 1. Implement the vehicle titling and registration business function. This phase replaces 50 applications and 100+ database programs related to vehicle registration.
- 2. Implement the driver license business function. This phase replaces 100 applications and 100+ databased related to driver license.

Summary of Findings from Market Research:



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California is the largest state in the United States, with a population of 39 million and 29 million registered motor vehicles. The top 10 states that have undertaken system reengineering or replacement effort in the past 10 years are all using a custom solution. Research has shown, that the bigger states tend to improve their current system by upgrading it to a more-modern technology platform. Some states, such as Texas, choose to do refactoring – a relatively smaller upgrade (but the project is not small, with the price tag of \$71 million). The complexity of the DMV system, the Vehicle Laws and Regulations tend to be comparable to the number of registered vehicles and the size of state population. The bigger the state, the more complex the DMV system, and the bigger impact and risk of system modernization.

There is increasing interest and adoption in COTS/MOTS products. Table 2 shows that Fast Enterprises' DMV system has the most adoption of all COTS/MOTS solutions in all states; however, these states are much smaller in population compared to California. As of June 2017, Washington is the biggest state to implement Fast Enterprise's Fast DS-VS system. Washington has 6 million motor-vehicles registration and 7 million population - about one fifth of California's number. California DMV has not been able to find a real-world successful case of a COTS/MOTS DMV system adoption in a state comparable to its size.

One of the key things learned from the market research is that there is no one-size-fits-all solution. Each state chooses a solution that best fit their needs and unique situation, and implements it in a phased approach - generally two to three phases. The breakdown of phases is also unique in each state, with the consideration of the logical components, services supported, risk, and overhead. DMV plans to incorporate what was learned into the project planning, requirement generation, solution analysis, and procurement strategy.

In March 2019, the CDT placed the Front End Sustainability Project on hold, pending stabilization of the department's fragile at-risk systems. To proceed with stabilization expeditiously, the department in conjunction with CDT decided to conduct focused market research within a procurement process. This process allows for information specific to the department's environment and issues to be obtained and evaluated as market research.

On April 3, 2019, CDT, on behalf of DMV, released a Request for Offer (RFO) to the vendor community inviting them to participate in exploring the department's environment and stability issues then provide recommended approaches on eliminating outages and stabilizing the system. Vendors were also asked to provide a roadmap on how to achieve the recommendations. Qualified vendors were provided in depth information regarding the department's systems and issues, and afforded one-on-one site visits, and follow up discussions.

The department was allowed one-on-one discussions with each qualified vendor allowing for in depth research into the proposed methodologies. Discussions and negotiations resulted in contracts awarded to IBM and CGI to replace and migrate outdated unsupported equipment and applications with fully supported replacements.

2.10 Alternative Solutions

2.10.1 Solution Type

⊠ Recommended

2.10.2 Name

Technology Stabilization

2.10.3 Description



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The proposed solution uses an incremental approach to upgrade the DMVA, EASE that includes Front-End, Back-End, and Mid-tier systems.

DMV is planning to adopt an agile methodology to streamline the project schedule and delivery. Some of the benefits of using the Agile methodology are:

- earlier and continuous delivery of product;
- deliver value to the customer sooner;
- determine viability of the vendor earlier; and
- facilitate better team work, collaboration, and communication which will result in a higher quality in the development teams.

Additionally, DMV will have the Agile framework in place for future DMV projects, enabling DMV to deliver IT projects with greater customer satisfaction.

The Legacy System Stabilization Objective:

- Software and hardware upgrades when possible
 - Evaluate, plan and upgrade outdated operating software when possible without introducing risk to DMV service delivery
- Containment strategy
 - Avoid catastrophic core system failure by circumventing legacy system changes
 - Leverage alternative approaches to alleviate pressure on DMV obsolete technology

The DMV requires use of secure and reliable technology and shared services which require infrastructure that leverages the advantages of modern technology, including computing, robust shared services, network protocols, and reusable components. The DMV must use innovative approaches in order to stabilize, improve, and streamline the FES-DMVA environment, while ensuring CC remains accessible to the driver license (EASE DL) environment. The DMV is seeking a cost effective solution that is easy to support, maintain, enhance, and update to keep pace with business change and legislative requirements. The expectation is to eliminate costly and unnecessary expense, reduce outages, and increase efficiencies.

As part of the FES project planning activities, the DMV has defined themes and approximately 130 high-level functions (epics) for the DMVA VR/CC business functions. These high-level business functions have been identified as core business functions that will be further elaborated and decomposed during the life of the LSS project.

The DMV's current legacy systems and infrastructure have reached end-of-life and do not have the flexibility to support operational changes. Additionally, the current technical environment is rigid, fragile, and has reached the operational end-of-life. DMV requires the contractor to provide innovative technical environment solutions which will utilize current technological connectivity advancements to implement a resilient, sustainable, and flexible protocol whereas technical and business improvement can easily be realized and employed.

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



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	Enhance	the existing IT syste	em						
		new IT system							
X	Perform	a business-based p	procurement to he	ave vendors prop	ose a solution				
	Other, sp	ecify:							
2.10.4	2.10.4 Benefit Analysis								
Benef	•								
 Quicker path to reducing the risk of catastrophic system failure due to the obsolete system hardware and software. Uses proven hardware/software upgrade solutions. Leverages modern object-oriented programming methodology. Leverages EASE framework, a standardized front-end platform for both DL and VR, which DMV has the knowledge and ability to support going forward. Implements more current programming languages and tools, which will improve DMV's ability to obtain and retain skill support resources. Minimizes risk by applying lessons learned from the previous project that converted DMVA DL to EASE DL. Minimizes risk by implementing one group of users at a time and applying lessons learned to the next group. Higher likelihood of success than other options, as evidenced by successful incremental enhancement efforts at DMV. Minimizes risk of disruption to external business partners and field office operations. Better positions DMV for future web solutions. Positions DMV for future development of a fully relational database for core data. 									
	t + to add	d approach allow benefits/advanta		·	<u> </u>				
Disad	vantages								
	 Investing into a temporary solution as a stop-gap solution, may require multiple stabilization iterations until DMV modernization system is fully implemented. Risks dependency on vendor knowledge and resources for system maintenance. Increases coordination with multiple releases related to hardware/software upgrades Increases ongoing costs. Risk of incompatible hardware/software upgrades. Complexity of newly developed applications interfacing with existing legacy systems. 								
Selec	t + to add	disadvantages.							
		Anticipated Ti		bjectives After Pro	oject Go-Live				
			Objective 1						
	jective ımber	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years			
	1.0								
	2.0	\boxtimes							
Selec	ct + to ad	d objectives.							
		Anticipated Time							
Finai	ncial Bene	fit Within 1	2 Years	3 Years	4 Years	Over 4 Years			

Year



			Califor	nia Department of Techno	ology, SIMM 19B (Rev. 2.1), Revision 5/21/2018		
	Increased Revenues							
	Cost Savings							
Cost Avoidance								
	Cost Recovery							
2.1	2.10.5 Assumptions and Constraints							
T	The following are the two major constraints that influenced the selection of this approach:							
Sel 2.1	 As the DMV implements changes to the systems, it must continue to support the daily workload and changes as a result of legislative mandates. Changes imposed on the DMV's field office technicians must be minimized. Such changes can be very expensive and disruptive to deploy. Training 4,000 DMV employees and another 2,000 AC employees to use a new system, coordinating the technology rollout with the training, and mitigating the productivity impact of the field office learning curve are major events with very high probability of negative impact to the public. Select + to add assumptions/constraints 2.10.6 Implementation Approach Identify the type of existing IT system enhancement or new system proposed (check all that apply): Enhance the current system Develop a new custom solution Purchase a Commercial off-the-Shelf (COTS) system 							
	Other, specify:							
			raged (check all					
	 □ 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 							
Ide	entify who will m	odify the existing	ng system or cred	ate the new syster	n (check all that	apply):		
	A vendor will be contracted							
	Other, specify:							
Ide	entify the implen							
	•		· · ·	sed project in a si implementations	•			



	Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a later date. Specify the year when the remaining requirements will be addressed:
Ide	entify 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	0.7 Architecture Information



Business Function/	Process(es)	VR, DL				
	•	same application, system, or component; COTS, MOTS or custom faces, data center location; and, security.				
Application, Syste	· · · · · · · · · · · · · · · · · · ·	DMVA				
· ·	·	Select + to add an application, system, or component.				
COTS, MOTS or Cu	stom	Custom Application				
Nai	me/Primary Technology:	Event Driven Language (EDL) programming language				
Runtime Environment	Cloud Computing Used?	☐ Yes ⋈ No If "Yes," Select specify:				
	Server/Device Function	IBM AIX Power X				
	Hardware	IBM zSystem mainframe				
	Operating System	z/OS. AIX, Event Driven Executive (EDX)				
	System Software	WebSphere Application Server (WAS) Message Queue (MQ) Database 2 (DB2)				
		HP Output Server (HPOS) Tivoli Access Manager (TAM/e)				
C		Tivoli Identity Manager (TIM)				
System Interfaces		DMV and Auto Clubs staff access DMVA system via terminal screens				
		2) DMV utilizes its legacy Department of Motor Vehicles Automation (DMVA) system Vehicle Registration/Control Cashiering (VR/CC) front-end applications to support the following DMV service				
Data Center Loca	tion Other, specify	State Data Center Operated by Department of Technology				
Security	Access	□ Public ⊠ Internal State Staff □ External State Staff				
·	(check all that apply)	☐ Other, specify: BPs, ACs, Auto Dealerships and Salvage Companies				
	Type of Information (check all that apply)	☑ Personal ☐ Health ☐ Tax ☐ Financial ☒ Legal☑ Confidential ☐ Other, specify:				
	Protective Measures (check all that apply)	 ☑ Technical Security ☑ Identity Authorization and Authentication ☑ Physical Security ☑ Backup and Recovery ☐ Other, specify: 				
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 ☐ Financial ☐ Legal ☐ Confidential ☐ Other, specify:				
	Protective Measures (check all that apply)	□ Technical Security □ Identity Authorization and Authentication □ Physical Security □ Backup and Recovery □ Other, specify:				
Data Management	Data Owner	Name: Rose Smith				
		Title: Data Resource Manager				
		Business Program: Registration Operations Division				
	Data Custodian	Name: Mainframe Services DB2 Support				
		Title: Database Administrator				
		Business Program: OTech Data Center				



Select -	+ to add busine	ess functions/	processes.				
	olution Type						
	rnative						
2.10.2 N	Name						
0.10.0.5							
2.10.3 L	Description						
Approc	ch (Check all	that apply):					
			sting capabilities	•			
П			<u> </u>	ate a new busine	ess process		
П	· ·		el of services pro		533 P10CC33		
			ontracted service				
				<i>5</i> 3			
	Enhance the		iem				
	Create a nev	•		1			
		siness-basea	procurement to	nave vendors pr	ropose a solution		
	Other,						
2 10 4 F	specify: Senefit Analysis						
	s/Advantages						
Denem	o, Advamages						
			Disadva	antages			
	A	nticipated Tin	ne to Achieve O	bjectives After P	roject Go-Live		
			Objective	Timeframe			
Obje	ective Witl	hin 1 Year	2 Years	3 Years	4 Years	Over 4 Years	
_	nber						
			П	П	П	П	
		П	_	_	_	_ п	
			Select + to ac	dd obiectives		Ш	
	Antic	in atod Timo t		•	or Project Co. Live		
Financ		thin 1 Year	2 Years	3 Years	er Project Go-Live 4 Years	Over 4 Years	
	Increased						
	Revenues	Ш	Ц	Ц	Ц	Ш	
Co	ost Savings	П	П	П	П	П	
	Avoidance		П	П		П	
	2.10.5 Assumptions and Constraints						
<u> </u>	assimplions an	Constraints					
Select + to add assumptions/constraints							
	Select + to add assumptions/constraints						
2.10.6 l	mplementation	Approach			proposed (check		



	Develop a new custom solution Purchase a Commercial off-the-Shelf (COTS) system Purchase or obtain a system from another government agency (Transfer) Subscribe to a Software as a Service (SaaS) system Other, specify:
Ide	entify cloud services to be leveraged (check all that apply):
	Software as a Service (SaaS) provided by OTech 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	entify who will modify the existing system or create the new system (check all that apply):
	Agency/state entity IT staff A vendor will be contracted Inter-agency agreement will be established with another governmental agency. Specify Agency name(s):
	Other, specify:
Ide	entify the implementation strategy:
	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 at a later date. Specify the year when the remaining requirements will be addressed:
Ide	entify 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	0.7 Architecture Information



Business Function/Process(es)							
Select + to add a business process with the		same application, system, or component; COTS, MOTS or custom					
		nment; system interfo	aces, do	ata cent	er location; aı	nd, security.	
Application, Syste	m or (Component					
COTS, MOTS or Cu							
Na	me/Pi	rimary Technology:					
Runtime Environment		Cloud Computing Used?	□ Yes	□ No	If "Yes," specify:	Select	
		Server/Device Function					
		Hardware					
		Operating System					
		System Software					
		S	Select + to add system software				
System Interfaces							
Data Center Loca	ation						
0 1		Other, specify		. – .			
Security	, ,	Access	□ Public □ Internal State Staff □ External State Staff				
	-	neck all that apply)	☐ Other, specify:				
		ype of Information	□ Personal □ Health □ Tax □ Financial □ Legal				
		neck all that apply)			I □ Other, sp	•	
		rotective Measures	☐ Technical Security ☐ Identity Authorization and Authentication				
	(cr	neck all that apply)	☐ Physical Security ☐ Backup and Recovery				
			☐ Other, specify:				
Data Manageme	nt	Data Owner	Name:				
			Title:	- D			
		Dede Code d'es		ss Progra	im:		
		Data Custodian	Name:				
			Title:	no Drocuro	· · · · · · · · · · · · · · · · · · ·		
			busines	ss Progro	1111 .		



Select + to add business functions/processes							
2.10.1 Solution Ty	/pe						
□ Alternative							
2.10.2 Name							
2.10.3 Description	n						
Approach (Che	ck all that apply):						
□ Increase	e staff – new or ex	kisting capabilities	5				
☐ Modify	the existing busine	ess process or cre	ate a new busine	ss process			
□ Reduce	the services or le	vel of services pro	ovided				
□ Utilize ne	ew or increased c	contracted service	es				
□ Enhanc	e the existing IT sy	rstem					
	a new IT system						
		d procurement to	have vendors pro	opose a solution			
□ Other, s							
2.10.4 Benefit An							
Benefits/Advant	ages						
Select + to add	benefits/advanta	iaes					
Disadvantages	·	Ŭ					
Select + to add	disadvantages						
	Anticipated T	ime to Achieve O	bjectives After Pr	oject Go-Live			
		Objective	Timeframe				
Objective Number	Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years		
		П		П			
	_	_	_	_			
	Anticipated Time	to Achieve Finar	ncial Benefits Afte	r Project Go-Live			
Financial Benefi	t Within 1 Year	2 Years	3 Years	4 Years	Over 4 Years		
Increase Revenue							
Cost Saving							
Cost Avoidanc	e 🗆						
Cost Recover	у 🗆						
2.10.5 Assumptions and Constraints							



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Enter any content that you want to repeat, including other content controls. You can also insert this control around table rows in order to repeat parts of a table. Select + to add assumptions/constraints 2.10.6 Implementation Approach Identify the type of existing IT system enhancement or new system proposed (check all that apply): ☐ Enhance the current system Develop a new custom solution Purchase a Commercial off-the-Shelf (COTS) system ☐ Purchase or obtain a system from another government agency (Transfer) ☐ Subscribe to a Software as a Service (SaaS) system □ Other, specify: **Identify cloud services to be leveraged** (check all that apply): Software as a Service (SaaS) provided by OTech 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 (laaS) 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: DMV preference is to host the system in the same environment as the DL system, managed services at OTech Data Center. Identify who will modify the existing system or create the new system (check all that apply): ☐ Agency/state entity IT staff ☐ A vendor will be contracted ☐ Inter-agency agreement will be established with another governmental agency. Specify Agency name(s): □ Other, specify: Identify the implementation strategy: 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 at a later date. 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



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Business Function/Process(es) VR and titling, control cashiering for vehicle registration, and occupational license Select + to add a business process with the same application, system, or component; COTS, MOTS or custom solution; runtime environment; system interfaces, data center location; and, security. DMVA VR/CC/OL Select + to add an application, system, or component. COTS, MOTS or Custom Name/Primary Technology: If "Yes," Runtime Cloud Computing ☐ Yes ☐ No Select... Environment Used? specify: Server/Device **Function** Hardware Operating System System Software Select + to add system software System Interfaces Data Center Location Other, specify 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 ☐ Technical Security ☐ Identity Authorization and Authentication ☐ Physical Security ☐ Backup and Recovery (check all that apply) ☐ Other, specify: Data Owner Name: Data Management Title: **Business Program:** Data Custodian Name: Title: Business Program:



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Select + to add business functions/processes.

2.11 Recommended Solution

2.11.1 Rationale for Selection

The recommended solution, Technology Stabilization, is the most viable option for this proposal. It addresses the needs of the aging and obsolete DMVA front-end system while minimizing risk of failure and interruption to DMV's business processes. DMV needs to provide interrupted services to customers until DMV modernization effort is fully implemented.

While DMV is planing and executing the full legacy systems modernization, this effort best meets the objectives and requirements to sustain legacy systems to minimize risks and ensure service continuity

to DMV customers.							
Attachment: Attach	Attachment: Attach file to email submission.						
2.11.2 Technical/Initial CA-PMM Complexity Assessment							
Comple	xity			Complexity Zon	е		
Ta alausia al Causanlas	.1	□ Zo	ne I	Low Criticality/Risk			
Technical Complex Score:	2.3	⊠ Zo	ne II/III	Medium Criticality/R	isk		
3C016.		□ Zo	ne IV	High Criticality/Risk			
2.11.3 Procurement and Staffing Strategy (update for IBM/CGI contract)							
Activity	Activity						
Solicitation Developme	nt						
Responsible (check all that apply)	When Need			Cost Estin Verifica l (check all tha	ion		
 △ 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 in approved (after Stage 4 Project Readiness and Approval) 	ct d s ter ct	(check all that apply)			used on	
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If "Other," specify:				If "Other," specify:			
Requirements Elicitation	1						
Responsible When Needed Verification (check all that apply) (check all that apply) Cost Estimate Verification (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 Æ Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and Approval) 		☐ Cos ☐ CDT ☐ DGS ☐ Req ☐ Cor		nducted ive been used on
	actor Responsible for Activity			
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Cost Estimating				
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	actor Responsible for Activity			
Procurement Vehicle			Contract Type	
			, ,	
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.
If "Other," specify: Business Analysis	Click here to enter text.		If "Other," specify:	text.
Business Analysis Responsible (check all that apply)	When Needed (check all that apply)		If "Other," specify: Cost Estimate Verification (check all that a	text.
Business Analysis Responsible	When Needed	☐ Cos ☐ CDT ☐ DGS ☐ Req ☐ Cor	Cost Estimate Verification (check all that a ket research conducted (Mi t estimate provided (CE)	pply) R) anducted are been used on
Responsible (check all that apply) ☐ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☐ Contractor ☐ Other, specify: Complete Only if Contractor	When Needed (check all that apply) Stage 3 Solution Development Stage 4 Project Readiness and Approval After project is approved (after Stage 4 Project Readiness and	☐ Cos ☐ CDT ☐ DGS ☐ Req ☐ Cor	Cost Estimate Verification (check all that a ket research conducted (MI t estimate provided (CE) CE S CE uest for Information (RFI) cor nparable vendor services ho vious contracts (CV) eraged Procurement Agreen	pply) R) anducted are been used on
Responsible (check all that apply) ☑ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☐ Contractor ☐ Other, specify:	When Needed (check all that apply) Stage 3 Solution Development Stage 4 Project Readiness and Approval After project is approved (after Stage 4 Project Readiness and Approval)	☐ Cos ☐ CDT ☐ DGS ☐ Req ☐ Cor	Cost Estimate Verification (check all that a ket research conducted (Mi t estimate provided (CE) CE CE Uest for Information (RFI) cor inparable vendor services ho	pply) R) anducted are been used on



Technical Analysis						
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	ctor Responsible for Activity					
Procurement Vehicle			Contract Type			
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.		
Project Management						
Responsible (check all that apply)	When Needed (check all that apply)	Cost Estimate Verification (check all that apply)				
staff STP staff CDT Project Approvals and Oversight staff CA-PMO staff DGS staff Contractor Other, specify:	Development Stage 4 Project Readiness and Approval After project is approved (after Stage 4 Project Readiness and Approval)	 □ 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) 				
Complete Only if Contract	ctor Responsible for Activity					
Procurement Vehicle			Contract Type			
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.		
Conduct Procurement			Cook Followed	_		
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that a			
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Complete Only if Contro	actor Responsible for Activity				
Procurement Vehicle			Contract Type		
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.	
Project Oversight					
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (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)	☐ Cos ☐ CD1 ☐ DGS ☐ Req ☑ Cor	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)		
	actor Responsible for Activity		Combonel Tons		
Procurement Vehicle			Contract Type	Click here to enter	
If "Other," specify:	f "Other," specify: Click here to enter text.		If "Other," specify:	text.	
Organizational Change	Management				
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that a		
 ✓ 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) 	☐ Cos ☐ CD1 ☐ DG3 ☐ Req ☐ Cor ☐ prev	Market research conducted (MR) Cost estimate provided (CE) CDT CE DGS CE Request for Information (RFI) conducted Comparable vendor services have been used on orevious contracts (CV) Leveraged Procurement Agreement (LPA)		
	actor Responsible for Activity				
Procurement Vehicle			Contract Type		
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.	
Testing					
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that a		



		ı				
 Agency/state entity staff STP staff CDT Project Approvals and Oversight staff DGS staff Contractor Other, specify: Stage 3 Solution Apequation Development Stage 4 Project Readiness and Approval After project is approved (after Stage 4 Project Readiness and Approval) 			 □ 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) 			
-	actor Responsible for Activity		Combrand True			
Procurement Vehicle			Contract Type	Click here to enter		
If "Other," specify:	Click here to enter text.		If "Other," specify:	text.		
Design						
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that a			
 ✓ 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) 	 □ 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) 				
Complete Only if Contro	actor Responsible for Activity					
Procurement Vehicle	,		Contract Type			
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.		
Training						
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that a			
 □ 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)	 □ 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) 				
-	actor Responsible for Activity					
Procurement Vehicle			Contract Type			
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.		



Integration/Developme	nt					
			Cost Estimate			
Responsible (check all that apply)	When Needed (check all that apply)		Verification (check all that a			
 △ 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)	 □ 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) 				
	actor Responsible for Activity					
Procurement Vehicle			Contract Type			
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.		
Contract Management						
Responsible (check all that apply)	When Needed (check all that apply)	Cost Estimate Verification				
□ Agency/state entity	☐ Stage 3 Solution	П Маг	(check all that a rket research conducted (M			
staff STP staff CDT Project Approvals and Oversight staff CA-PMO staff DGS staff Contractor Other, specify:	Development □ Stage 4 Project Readiness and Approval ☑ After project is approved (after Stage 4 Project Readiness and Approval)	 □ 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) 				
Complete Only if Contro	ictor Responsible for Activity					
Procurement Vehicle			Contract Type			
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.		
Enterprise Architecture						
Responsible (check all that apply)	When Needed (check all that apply)		Cost Estimate Verification (check all that a			
□ 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) 	 □ 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) 				



Complete Only if Contractor Responsible for Activity				
Procurement Vehicle			Contract Type	
If "Other," specify:	Click here to enter text.		If "Other," specify:	Click here to enter text.
Quality Assurance				
Responsible (check all that apply)	When Needed (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)	(check all that apply) ☐ 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)		
Complete Only if Control Procurement Vehicle	actor Responsible for Activity		Contract Type	
If "Other," specify:	Click here to enter text.		Contract Type If "Other," specify:	Click here to enter text.
Technical Installation of	Hardware			-
Responsible (check all that apply)	When Needed (check all that apply)	Cost Estimate Verification (check all that apply)		
 ✓ Agency/state entity staff ☐ STP staff ☐ CDT Project ✓ Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☒ Contractor ☒ Other, specify: OTech 	☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☐ After project is approved (after Stage 4 Project Readiness and Approval)	 □ 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) 		
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Procurement Vehicle			Contract Type	Click here to enter
If "Other," specify:	Click here to enter text.		If "Other," specify:	text.
Technical Installation of	Sourmare		Cost Estimate	
Responsible (check all that apply)	When Needed (check all that apply)	Verification (check all that apply)		



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 ✓ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☒ Contractor ☒ Other, specify: OTect 	☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☑ After project is approved (after Stage 4 Project Readiness and Approval)	 □ 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) 			on		
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Procurement Vehicle			Contract Type		Click	here to e	nter
If "Other," specify:	Click here to enter text.		If "Other," sp	ecify:	text.		1101
Maintenance							
Responsible (check all that apply)	When Needed (check all that apply)				Cost Estimate Verification heck all that apply)		
 ✓ Agency/state entity staff ☐ STP staff ☐ CDT Project Approvals and Oversight staff ☐ CA-PMO staff ☐ DGS staff ☒ Contractor ☒ Other, specify: OTech 	☐ Stage 3 Solution Development ☐ Stage 4 Project Readiness and Approval ☑ After project is approved (after Stage 4 Project Readiness and Approval)	 □ 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) 			on		
	actor Responsible for Activity						
Procurement Vehicle			Contract Type	8	Cl: -l.	la a d a	_1
If "Other," specify:	Click here to enter text.			ecify:	text.	here to e	nter
Select + to add activitie	es.						
Yes No							
Will any of the activities identified above result in a competitive or non-competitive solicitation that will be over the Agency/state entity's DGS delegated purchasing authority?							
2.11.4 Enterprise Architecture Alignment							
DMV's project and architecture roadmap uses different projects and efforts as building blocks to reach the target architecture. The vision is to leverage the technologies and infrastructure built in other efforts to maximize our investment. This proposal is consistent with DMV's target enterprise architecture.							
Information Technology Capability Table							
Information Technolo	gy Capability			Existing Enterpris Capability t Leverage	e o be	Ne Enter Capa Need	orise bility
Public or Internal Portal/Website			\boxtimes			l	



Public or Internal Mobile Application	×	
Enterprise Service Bus	\boxtimes	
Identity and Access Management	×	
Enterprise Content Management (including document scanning and eForms capabilities)		
Business Intelligence and Data Warehousing	×	
Master Data Management	×	
Big Data Analytics		



2.11.5 Project Phases					
Phase One					
Description		Phase Deliv	verable		
The project has a single phase that consists of multiple work streams to provide system stabilization and leverage DMV's Containment Strategy.		The work streams are focused on following legacy systems stabilization activities: Evaluate, plan and upgrade outdated hardware and software as needed without introducing risk to DMV service delivery. Avoid catastrophic core system failure by circumventing legacy system changes. Leverage alternative approaches to alleviate pressure on DMV obsolete technology. Monitoring systems and reducing risk of system failures, field office outages and			
			impact to customers.Expose and stabilize legacy data to improve		
		business access.			
2.11.6 High Level Proposed P	roject Schedule				
Proposed Project Planning Start Date:	5/4/2016	Proposed Project Planning End Date:	1/3/2019		
Proposed Project Start Date:	1/2/2019	Proposed Project End Date:	7/31/2023		
2.11.7 Cost Summary (FAWs to be provided in Stage 4)					
Total Proposed Planning Cost:					
Tota	l Proposed Project	Cost:			
Total Proposed Future Operation Total Proposed Annual Fu	Costs uing):				
2.12 Staffing Plan					
2.12.1 Administrative					



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The DMV Administrative sections have the capacity and capability of providing the project support necessary for this project.

DMV's Budget Fiscal Analysis Branch (BFAB):

The proposed project workload is part of the existing duties of the Budget Office staff. An analyst from the Budget and Fiscal Analysis Branch, with the support of the Budget Office management team, will provide budget-related assistance and guidance to the proposed Information Technology project team. Responsibilities include consulting with the program areas in determining the costs associated with staffing and operational needs for the project and acting as a liaison between the DOF and other control agencies in preparing and submitting the Budget Change Proposal. The Budget Office staff has from 1 to 20 years of budgeting experience.

DMV's IT Acquisitions Office:

The DMV IT Acquisitions supports the project with procuring a contract by assisting with:

- Solicitations
- Contacting prospective contractors
- Developing or reviewing the solicitation packages (including the Statement of Work)
- Coordinating the encumbrance of funds for the contract
- > Distributing copies of the signed executed contract to the appropriate parties.

The DMV IT Acquisitions Official coordinates final approval of the contracts with the Director or designee and advises the project of new or modified state procurement policies and regulations. Throughout the project life cycle, the DMV IT Acquisitions Official continues to serve the project with contract amendments and staff replacement and must work with the Department of Technology Procurement Office (PO) as required.

The DMV Acquisitions Official is a subject matter expert on the State of California's Solicitation process and acts as an advisor to members of the Evaluation Team.

Specific duties related to the evaluation and selection process include:

- Coordinating with the CDT PO on a regular basis
- Assisting the CDT PO with training the Evaluators on the review process and the use of the evaluation materials such as worksheets and evaluation sheets
- Assisting the CDT PO in preparation of the Evaluation and Selection Report.

2.12.2 Business Program

The business programs do not have the capacity to absorb the substantial workload this project is anticipated to generate. Therefore, the business programs most impacted by the project (ROD, FOD, LOD & CSD) have requested additional temporary resources (at the same level as those expected to participate in the project) to augment the existing staff. This will alleviate any resource contention created by the project and allow selected staff to participate fully. Once the project is implemented, the business program workload is expected to return to the normal levels.

2.12.3 Information Technology (IT)

DMV's Information Systems Division has conducted a thorough analysis of the current resource capacity and determined DMV does not have the capacity to absorb the additional workload without assistance. Contract resources, along with temporary State staff, will augment the current ISD staff. This augmentation is outlined in the project organizational layout.

2.12.4 Testing



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DMV's Product Quatliy Assurance (PQA) Section will assign a Test Manager to provide guidance for the overall testing. Responsibilities for the Test Manager include review and approval of a strategy and scope of testing, review and approval of the test approach, defining a defect management plan, providing the defect severity classification, providing the pass/fail criteria for test cases, identifying and raising any risks related to testing throughout the effort and monitoring all test phases (e.g. – Unit, Integration, System, etc.) and types of testing (e.g. – Black Box, White Box, Regression, Stress, etc.) throughout the Front-end Applications Sustainability effort. The PQA Test Manager to the Legacy Systems Stabilization effort will also have responsibility for reviewing and approving the overall Test Strategy and Test Plan for the project. The PQA Test Manager, with over five years of experience acting as Test Manager on multiple types of projects, will accomplish this by eliciting guidance if necessary from other PQA resources. In addition to Test Management Services, PQA will receive staff augmentation to ensure DMV's PQA testing standards and methodologies are adhered to as well as providing an expert test tool support and technical expert with our test tools (Service Virtualization, Test Data Management, etc.). Additional staff augmentation will also be needed to provision new test environments for the project.

2.12.5 Data Conversion/Migration

To support the containment strategy, the data stabilization effort provides access method to legacy data without modifying the legacy systems. It does not include transforming or modifying the database. Therefore, it will not involve data conversion and migration from the source system to the target system.

2.12.6 Training and Organizational Change Management

The DMV plans to prepare its stakeholders for the upcoming project by establishing the Organization Change Management (OCM) and Training team. The Department also plans to leverage consultant services for OCM, the Department's OCM Network, and the Department's existing Training branch. This team will work in conjunction with the LSS Project for the stakeholders of the new modernized DMVA system so that they are satisfactorily educated about the changes, are given the opportunity to buy-in to the vision and structure of the change, and are able to adopt the change. Even though the team does not expect business disruption, the team will seek to prepare staff and the DMV organization to the new processes and technology through services that educate the people about the change and how they will successfully perform their responsibilities in the new environment. All work will be done in conjunction with the DMV Change Network and will follow DMV's established change management methodology to ensure that the project's OCM activities are managed successfully through project completion.

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



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DMV's Enterprise Governance Council (EGC) is a deliberative body established to advise the Directorate. The EGC takes an enterprise view of DMV projects to ensure alignment with DMV's Strategic Plan. It provides a forum and structure for furthering DMV initiatives, portfolio projects, and other enterprise efforts.

The EGC consists of ten members (Chief Deputy Director, Assistant Chief Deputy Director, Deputy Directors), five advisors (Deputy Directors and Branch Chiefs), and three senior advisors (Director, Chief Digital Transformation Officer, Chief Data Officer). These members represent the various program and support areas within DMV. The council meets twice a month, but can be called to convene off-cycle if needed.

The DMV IT Acquisitions Official assists with procuring a contract by assisting with:

- Solicitations
- Contacting prospective contractor
- Developing or reviewing the solicitation packages (including the Statement of Work)
- Coordinating the encumbrance of funds for the contract
- > Distributing copies of the signed executed contract to the appropriate parties

The DMV IT Acquisitions Official coordinates final approval of the contracts with the Director or designee and advises the project of new or modified state procurement policies and regulations. Throughout the project life cycle, the DMV IT Acquisitions Official continues to serve the project with contract amendments and staff replacement and must work with the CDT PO as required.

The DMV Acquisitions Official is a subject matter expert on the State of California's Solicitation process and acts as an advisor to members of the Evaluation Team.

Specific duties related to the evaluation and selection process include:

- Coordinating with the CDT PO on a regular basis
- > Assisting the CDT PO with training the Evaluators on the review process and the use of the evaluation materials such as worksheets and evaluation sheets.
- Assisting the CDT PO in preparation of the Evaluation and Selection Report

This position is the primary point of contact for the CDT PO, Project Team and Evaluation Team in regard to the solicitation.

The DMV's procurement official, assigned to this project, has experience using the proposed procurement methodologies identified in Section 2.11.3 Procurement and Staffing Strategy. Additionally, the DMV procurement official has worked with STPD on various contracts using the STPD Streamlined Template, is familiar with protest types or use of Public Contract Code (PCC) 6611, and has participated with STPD in the negotiation of various contracts.

2.12.8 Project Management 2.12.8.1 Project Management Risk Assessment Project Management Risk Score: 1.0 Attachment: See Attachment

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?

Project Charter	No	In Development
Scope Management Plan	No	In Development
Risk Management Plan	No	In Development
Issue and Action Item Management Plan	No	In Development
Communication Management Plan	No	In Development



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Schedule Management Plan	No	In Development
Human Resource Management Plan	No	In Development
Staff Management Plan	No	In Development
Stakeholder Management Plan	No	In Development
Governance Plan	No	In Development

2.12.9 Organization Charts

Attachment: See Attachements

2.13 Data Conversion/Migration

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

Data Conversion/Migration Planning	Not Applicable	Data Quality Assessment	Not Applicable
Data Conversion/Migration			
Requirements	Not Applicable	Data Quality Business Rules	Not Applicable
Current Environment Analysis	Not Applicable	Data Dictionaries	Completed
		Data Cleansing and	
Data Profiling	Not Applicable	Correction	In Progress

To support the containment strategy, the data stabilization effort provides access method to legacy data without modifying the legacy systems. It does not include transforming or modifying the database. Therefore, it will not involve data conversion and migration from source system to target system.

Attachment: Attach files to email submission.

2.14 Financial Analysis Worksheets

Attachment: Note: FAWs to be provided with Stage 4.

Preliminary Assessment – Department of Technology Use Only

Original "New Submission" Date	11/13/2020
Form Received Date	11/13/2020
Form Accepted Date	11/13/2020
Form Status	Completed
Form Status Date	2/22/2021

Main Form – Department of Technology Use Only

Original "New Submission" Date	11/13/2020
Form Received Date	11/13/2020
Form Accepted Date	11/13/2020
Form Status	Completed
Form Status Date	2/22/2021
Form Disposition	Approved
Form Disposition Date	2/22/2021