Stage 2 Alternative Analysis

California Department of Technology, SIMM 19B.2 (Rev. 2.5, July/2021)

2.1 General Information

Agency or State Entity Name: Department of Fish & Wildlife

If agency/entity not in list then enter here. Click or tap here to enter text.

Organization Code: 3600

Proposal Name: Wireless Digital Evidence Management Systems for the In-Car Cameras effort (DEMS)

Department of Technology Project Number (0000-000): 3600-079

2.2 Preliminary Submittal Information

Removed. Stage 2 Preliminary Assessment information moved to Stage 1 Business Analysis, Section 1.10.

2.3 Stage 2 Preliminary Assessment

Removed. Stage 2 Preliminary Assessment information moved to Stage 1 Business Analysis, Section 1.10.

2.4 Submittal Information

- **Contact Information**

  Contact First Name: Beth

  Contact Last Name: Jackson

  Contact Email: beth.jackson@wildlife.ca.gov

  Contact Phone: 916-995-2105

Submission Date: 2/9/2022

Project Approval Executive Transmittal (attach file to your email submission.)

Submission Type: New Submission

If Withdraw, select Reason: Choose an item.

If Other, specify reason here: Click or tap here to enter text.

- **Sections Updated**

  Sections Changed (List all the sections that have been updated.)

  Click or tap here to enter text.

  Summary of Changes (Summarize updates made.)

  Click or tap here to enter text.

- **Condition (s) from Previous Stage(s)**

  Condition #: Click or tap here to enter text.

  Condition Category: Choose an item.

  If Other, specify: Click or tap here to enter text.

  Condition Sub-Category: Choose an item.

  If Other, specify: Click or tap here to enter text.

  Condition: Click or tap here to enter text.

  Assessment: Choose an item.

  If Other, specify: Click or tap here to enter text.

  Agency/State Entity Response: Click or tap here to enter text.

  Status: Choose an item.

  If Other, specify: Click or tap here to enter text.

NOTE: Use **Ctrl+c** and **Ctrl+v** to copy and paste as needed throughout the template.

TIP: Copy and paste to add Conditions as needed.

2.5 Baseline Processes and Systems

- **2.5.1 Description This will be a new process and system for CDFW LED.**
- **2.5.2 Business Process Workflow**

There is not a current business process

- **2.5.3 Current Architecture Information**

Business Function/Process(es)

TIP: Copy and paste to add business processes 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: No existing system/architecture

COTS, MOTS, or Custom: Choose an item.

Name/Primary Technology: Click or tap here to enter text.

TIP: Copy and paste to add Applications, Systems, or Components as needed.

Runtime Environment

Cloud Computing Used: Choose an item.

If "Yes," specify: Choose an item.

Server/Device Function: Click or tap here to enter text.

Hardware: Click or tap here to enter text.

Operating System: Click or tap here to enter text.

System Software: Click or tap here to enter text.

System Interfaces: Click or tap here to enter text.

Data Center Location: Choose an item.

If Other, specify: Click or tap here to enter text.

Security

Access: (answer Yes or No to all choices)

Public: Choose an item.

Internal State Staff: Choose an item.

External State Staff: Choose an item.

Other: Choose an item. Specify: Click or tap here to enter text.

Type of Information (answer Yes or No to all choices)

Personal: Choose an item.

Health: Choose an item.

Tax: Choose an item.

Financial: Choose an item.

Legal: Choose an item.

Confidential: Choose an item.

Other: Choose an item. Specify: Click or tap here to enter text.

Protective Measures (answer Yes or No to all choices)

Technical Security: Choose an item.

Physical Security: Choose an item.

Backup and Recovery: Choose an item.,

Identity Authorization and Authentication: Choose an item.

Other, specify: Click or tap here to enter text.

Data Management

Data Owner Name: Click or tap here to enter text.

Data Owner Title: Click or tap here to enter text.

Data Owner Business Program: Click or tap here to enter text.

Data Custodian Name: Click or tap here to enter text.

Data Custodian Title: Click or tap here to enter text.

Data Custodian Business Program: Click or tap here to enter text.

TIP: Copy and paste to add Business Functions/Processes as needed.

- **2.5.4 Current Architecture Diagram**

(Attach Current Architecture Diagram to the email submission.)

- **2.5.5 Security Categorization Impact Table**

(Attach Security Categorization Impact Table to the email submission.)

SECURITY CATEGORIZATION IMPACT SUMMARY

Confidentiality: Choose an item.

Integrity: Choose an item.

Availability: Choose an item.

2.6 Mid-Level Solution Requirements

(Attach Mid-Level Solution Requirements to the email submission.)

2.7 Assumptions and Constraints

Assumptions/Constraints: New system must work with current vehicle configuration

Description/Potential Impact: Current LED vehicle are equipped with iPads and PepWaves. If no vendor can support current vehicle set up it will be cost prohibitive to implement this project.

Assumptions/Constraints: The funds will be available for this project.

Description/Potential Impact: CDFW will not be able to implement this project if funds are not available.

Assumptions/Constraints: CDFW will purchase a turn-key cloud solution

Description/Potential Impact: If the appropriate technology is not available CDFW will not be able to implement a solution.

Assumptions/Constraints: Project resources are available and engaged in project activities

Description/Potential Impact: If the resources required for this project are not available in a timely manner and are engaged in project activities the project could be significantly delayed or even fail.

Assumptions/Constraints: System fully hosted in a government approved cloud data center, Criminal Justice Information Services security policy (CJIS) and National Institute of Standards and Technology (NIST) compliant. Cost for internal resources to support the application will be very low

Description/Potential Impact: CDFW will not be able to implement this project if non-compliant.

2.8 Dependencies

Dependency Element: Securing funding

Dependency Description: CDFW will need to secure funding by the end of Stage 3 Solution Development.

Dependency Element: BW and IC Camera policy is approved and implemented prior to go live

Dependency Description: CDFW has a draft policy, will fine tune it based on results of the PAL process, finalizing it once a vendor has been awarded. LED does not anticipate any issues with this policy, Wildlife Officers and management see this as a positive step for officer safety and better interaction with the public and prosecution.

2.9 Market Research

- **2.9.1 Market Research Methodologies/Timeframes**

Methodologies Used to Perform Market Research

Request for Information (RFI): Yes

Internet Research: Yes

Vendor Forums/Presentation: Yes

Trade shows: Choose an item.

Published Literature: Yes

Leveraged Agreements: Yes

Collaboration with other Agencies/state entities or governmental entities: Yes

Other: Yes Specify: Survey

Time spent conducting market research: Over 1 Year

Date market research was started: 4/6/2020

Date all market research was completed: 1/21/2022

- **2.9.2 Results of Market Research:**

Although the implementation of both Body-Worn and In-Vehicle cameras has been more of a staple for typical Law Enforcement Agencies. There is a growing need for all Law Enforcement officers to use this technology. Department of the Interior, through Director's Order 220, announced that all Fish and Wildlife Services Federal Wildlife Officers (FOW) must wear a Service-issued body camera when performing law enforcement duties that involve, or could potentially involve interactions with the public. Department of Justice (September 2, 2021), Bureau of Land Management (January 11, 2021) and Park Police (May 20, 2021).

Market Research Overview

CDFW's Market Research started about 18 months ago with a team of four (4) CDFW LED Wildlife Officers (Officers) that included reaching out to other Law Enforcement Agencies, internet research, vendor presentations. Followed by IT staff involvement 9 months ago, adding an IT Project Manager to this effort. IT/LED staff were involved in reviewing CHPs RFP and Texas Wildlife procurement documents to develop our requirements. As well as posting and evaluating vendors through our RFI and bringing in Gartner to help us understand the marketplace.

CDFW Considerations

CDFW Officers have unique characteristics and obstacles in how and where they do their work. These unique circumstances and requirements will be weighted the highest through this process.

Unique to LED

1. LED Wildlife Officers (Officers) do not do shift work. Vehicles are permanently assigned to one officer who could be working 12-14 hours a day. They work all hours of the day and/or night. Most officers have a home office. They do not check into a regional or HQ office daily or even sometimes weekly. A solution requiring these officers to check into a Regional or Headquarters office daily to upload video will not work.
2. Many Officers work in extreme environments, often in remote locations that do not have any cellular or data coverage. Officers also utilize patrol methods not common to other law enforcement agencies, such as boat patrol, horse patrol, UTV patrol, and ATV patrol.
3. CDFW needs both body worn and vehicle cameras for their safety. In most instances an officer works solo at all times of the day. These cameras are used in conjunction allowing the footage to cover a broader scope of the incident.
4. Officers do not hand off evidence or video footage to other staff, as in a more traditional Law Enforcement environment where evidence and footage would be handed off to a detective.
5. Must use iOS, LED vehicles are equipped with iPads and PepWaves. We will not entertain a different solution. In addition, Officers have Motorola radios, RMS is hosted and developed by Central Square and CDFW does not have its own CAD system. Dispatch is done through Department of Parks and Recreation (Parks).
6. Must be rugged, Officers are hard on their equipment. Getting replacement equipment quickly will be important.
7. Officers use additional equipment on a regular basis that other law enforcement do not such as, binoculars, night scopes, life jackets, etc. often worn around their neck
8. Officers do not put prisoners in the back seat, they are placed in the front seat of their vehicle. New patrol vehicles are equipped with prisoner cages, however existing fleet vehicles are not being retrofitted.
9. Space concerns with added equipment under the front and rear seats of LED vehicles. LED patrol vehicles are typically pickup trucks, and radio/technology equipment is located under seats, instead of the more traditional placement in a patrol car trunk.

The actual hardware components in both body-worn and vehicle cameras are on the surface similar, a BWC, a harness, a vehicle camera, a vehicle camera display screen, plus batteries and chargers. We were surprised through our market research that there are significant differences in the cameras, such as durability, battery life and video quality. Our evaluation concentrated on which product best meets the nine unique LED needs stated above, as well as the vendors future roadmap for new functionality and features. In addition, we evaluated the software and AI capability for intuitiveness and ease of use of their Digital Evidence Management System (DEMS), redaction process and options, activation triggers. The product must work with our vehicle set up. Vendor must deliver a full system meaning that all video is uploaded to a secure cloud and that the vendor contractually commits in writing to managing data, staffing, and associated technology in accordance with the FBI's Criminal Justice Information Services (CJIS) Security Policy.

Market Research High Level Considerations/Results
Vendor Market Considerations
- Multiple vendors, the current vendor market is quite concentrated.
- Leading vendors provide turn-key solutions that include Hardware, hosted content management services, and redaction and analysis capabilities. Professional services, including integration is also sometimes offered.
- Vendor long term Viability and market commitment, product evaluation consideration.
- Vendor professional services are limited to their solutions.
- Network infrastructure considerations typically tax or exceed vendor scope.

Turn-Key Body Worn Camera Vendors
- Axon – Motorola – Getac – Panasonic – Reveal – Sentinel Camera Systems - Utility

Turn-Key Solutions are readily available from multiple vendors. Acquisition should focus on the devices and storage as well as broader DEMS needs, vendor stability, capacity for future product enhancements/roadmap and market footprint.

Case Studies
Los Angeles Police Department, CA
Solution Summary:
- 2016 pilot with 100 Users
- 9000 + officers (full roll out)
- Camera, smart phone and peripherals
- Digital Evidence Management (Cloud) limited to Body-worn Video initially

Implementation Perspectives
- Pilot/proof of concept helped LAPD with organizational change efforts
- Physical work associated with rolling-out the devices and hardware was significantly greater than initially assumed

Lessons Learned
- Consider change impacts on the Users (another device, another charger, another smart phone to carry, etc.)
- Ensure Vendor contract/SOW includes roll-out logistics associated with unboxing, charging, delivery, and training

Phoenix Police Department, AZ
Solution Summary
- 3000 officers (full roll-out)
- Camera and peripherals
- DEM (Cloud) limited to Body-Worn Video initially

Implementation Perspectives
- Project faced (and continues to face) significant public and media scrutiny
- Data-sharing with PSJ partners and the Public was a limitation to the solution
- DEMS solution only used for body-worn video

Lessons Learned
- Earlier planning for a more strategic DEMS solution (for all forms of video inputs) would have been beneficial
- PPD experiences high levels of effort to manage video/multi-media information silos

Seattle Police Department, WA
Solution Summary:
- 2016 pilot
- 1300 + officers (full roll out)
- Camera and peripherals
- Digital Evidence Management (Cloud)

Implementation Perspectives
- Body camera policy was based on community input and lessons learned from the pilot.
- Policy was reviewed and approved in May 2017 by a federal judge as a part of the consent decree with the DOJ.
-"Seattle overwhelmingly want to see body cameras on their officers. This is almost universally popular (89% support/7% oppose)" -SPD Monitor's Sixth Semi-Annual Report clumsy

RFI results:
CDFW put an RFI out for a BW/ICC system November 8, 2021. We received eight responses. Axon, Digital Ally, LensLock, Motorola Solutions, Panasonic i-Pro, PCN Strategies, Pro-Vision Video System, and Utility Associates.

Although all vendors that submitted RFI responses could provide a BW/ICC System to CDFW we narrowed the eight vendors to four to participate in a 2-part presentation/interview process. Axon, LensLock, Motorola and PCN Strategies.

What we learned:
Results of the first 1 ½ hour interviews/presentations were not that surprising. Highlights by vendor. In alphabetical order.

Axon. Strengths. They are one of the leaders in mobile video for law enforcement with over 17,000 agencies. They emphasized camera quality. 24/7 US Based support. BWC refresh every 2.5 years. Several Offloading techniques. In field review and tagging. Senses a variety of inputs (triggers) to start camera recording. Potential Weaknesses. Currently their products do not work with our vehicle equipment (iPads and Pepwaves), it is on their roadmap, but vague on deployment date. Fleet hardware refresh at the end of 5 years. Our project may not carry the weight of a larger Law Enforcement .

LensLock. Strengths. They are a California based company. 13 hour battery, longer lasting battery on their roadmap. Will search for both Verizon and ATT signal. Compatible with LED vehicle equipment (iPad/Pepwave). Bluetooth integrated. Support 24/7 and 365. Refresh BW and IC cameras every 2.5 years. In field review and tagging. Unlimited outsourcing of redaction service. 3 redaction options at no extra cost (including integrated Azure Redaction, Professional App from Veriton or Sitehound, professional outsourced service with 48hr, turnaround time). Best-in-class customer service (everything is included no up-sale). Continuous technology updates, such as 5G compatibility, Bluetooth technology, battery life, camera quality and AI technology). Potential Weaknesses. Brand recognition. New to market, can they grow market share (will they be purchased). Largest current client is Georgia with 400 users, Roseville 200. Have approximately 100 plus clients across US.

Motorola. Strengths. LED has a history working with CDFW (handheld and vehicle radios). One of the leaders in mobile video market. 128GB BWC storage. Can passively record after the fact. Several offload techniques. Compatible with LED vehicle set up (iPad/Pepwave). In field review and tagging. BW/ICC refresh every three years. Potential Weaknesses. Has reputation for poor customer service. The 24/7 customer service is an enhanced service and priced option. Our project may not carry the weight of larger law enforcement agencies. No specific Wildlife Officer deployment. Motorola has acquired five (5) companies since 2018.

PNC Strategies (Getac). Strengths. Specialize in rugged mobile technology solutions. Work with Florida Fish and Wildlife (800 Officers) competitors Axon, Watchguard (Motorola), Panasonic and Utility. BWCs are rugged and waterproof. Infield review and tagging. Extended battery pack. "Store and Forward" ensures highest battery performance and lowest reliance on cellular. Potential Weaknesses. Do not fully understand the partnership between PNC Strategies and Getac. Don't have a very large footprint in California. In Car docking station (6 ports) seems large and may not fit in LED vehicles.

Results of the 3-hour Scenario based presentation/interview were surprising. We sent the scenarios to each vendor 1 ½ weeks prior to the meeting. We expressed in our instructions that when we indicated (Demo) we would like to see an actual demonstration.

The two "leaders in the field" did not fare well. Both vendors struggled with the extended scenario-based format. Motorola did not seem prepared, their technical person did not seem to have even read the scenarios, and the sales staff did not adequately demonstrate what we were asking for. They jumped back and forth between two systems, and seemed to be

confused themselves how their DEMS worked. When asked about this they replied that the only reason they were jumping between systems was because they were admin and it would not be the same for us. They were unable to figure out a way for our staff to upload a video in their system although they had asked for the email of our Wildlife Officer who was going to upload the video a week prior. We had to FTP the video to them. Overall impression was that Motorola did not prepare and did not understand how to use their system. They told us they would get back to us with more information at least six times. This was one of our fears after the first presentation, that we would not be big enough clients for them. We feel that their lack of professionalism, preparedness, and knowledge of their product would not change through the RFP process, implemetation and customer service. In fact, LED was unhappy with their radio training. Axon failed, yes they are one of the largest companies in this field on the market. Their camera quality is great and their evidence.com (DEMS) is impressive. They have the best redaction product built into their DEMS. However, there are material things that are a priorities for CDFW LED that they cannot meet. First, camera footage cannot be viewed in the field using wifi. Second, their products cannot currently work with our vehicle set up of iPads and Pepwaves. And they had limited options for work done in more remote areas. In our debrief, we all agree that Axon is a great product for use in urban and metropolitan areas. During their scenario presentation they gave us realistic timeline of integration with iOS and Pepwaves and it is late 2022. Their new generation camera which may meet our needs is still 1.5 years from deployment. Finally, they have a lot of upgrades, which we would need and all come at an added cost.

Conversely, both LensLock and PCN (Getac) did very well in the extended scenario format were and professional and prepared they both had knowledgable staff presenting and were able to answer all of our questions. LensLock took the time to mirror their iPhone app to their desktop screen so we could see it clearly and understand how it worked. LensLock their cameras and DEM were a little simple, but they had several options for remote work . Other pluses were zero cost software upgrades, customized mobil application, unlimited data plan even for non-native photos and videos. Were able to give us an account to upload our video. In addition their customer service was stellar. This includes, providing two BWCs to staff who are in more remote areas with unreliable wifi, and providing a third party service to redact our videos within 48 hrs. One of the 3rd party vendors. Their cameras work with both ATT and Verison and will pick up the highest signal from either. They have a clear direction on their roadmap which includes a longer lasting battery and a lot of software enhancements (AI). They are a small California company, based in San Diego with only 25 employees. They would increase number of employees as they increase the number of clients. We still see this as a risk, but they could meet our needs. But what surprised us the most is that PCN Strategies (Getac) they really knocked it out of the park and exceeded our expectations. We understood why they had so many options for charging BWCs because they really understand the challenges facing Officers that work in remote areas and had redundancy to little or no wifi over extended periods of time. Providing either a one dock or 8 port master dock. Magnetic break-way charging cables, as well as an extended battery pack that fits below the BWC, adding 5-6 hours of battery life. BWC is rugged and waterproof (MIL-STD & IP63 rated), certified intrinsically safe. In Car video screen has secure mechanical mount that can tuck away above the visor on the passenger side of the vehicle when not in use. In addition, PCN has extensive training which includes the Getac University which provides video modules on all aspects of their system, as well at train the trainer live sessions. CDFW has been invited to the train the trainer training for San Luis Obispo Sheriffs' Office. They also mentioned that they provide professional services that include; project management, pre-deployment, deployment and post-deployment. Finally, they competed against Coban, Watchgard (Motorola), Axon and Panasonic to win the bid for Florida Fish and Wildlife. Florida has had Getac cameras for the past four years and are extremely happy. CDFW LED Officers think that working with a vendor that understands the unique characteristics of Wildlife Officers is important. There are three big Fish and Wildlife Agencies, Florida, Texas and California. The fact that they have successfully deployed Florida, who has twice as many officers as CDFW is critical. Through our research it has been determined that PCN (Getac) best meets our unique needs.

Through our market research we are confident that CDFW will not need to download video onto our network, even when video is provided through a Public Records Act (PRA). The presentations also shed light on a couple of areas that we need to give some thought to and add requirements around these areas and/or fine tune current requirements. These areas are training, redaction services, and customer service.

2.10 Alternative Solutions

- **2.10.1 Solution Type (Recommended or Alternative): Recommended**

- **2.10.2 Name: Body-Worn and In-Car Camera System**

- **2.10.3 Description: Purchase and implement a Body-worn and In-Car camera system for all Wildlife Officers (up to 500). Must be cloud based and SaaS, turn-key solution that includes and include a Digital Evidence Manager System (DEMS).**

Approach (Answer Yes or No to all choices)**:**

Increase staff – new or existing capabilities: Yes

Modify the existing business process or create a new business process: Yes

Reduce the services or level of services provided: No

Utilize new or increased contracted services: Yes

Enhance the existing IT system: No

Create a new IT system: No

Perform a business-based procurement to have vendors propose a solution: No

Other: Yes Specify: Formal RFP Competitive, Best Value to State

- **2.10.4 Benefit Analysis**

Benefits/Advantages: CDFW will be purchasing a full system including proprietary SaaS software and Cloud storage of video. This approach is encouraged by CDT and supports the "Cloud-First" directive.

This system if fully hosted in a government approved cloud data center, vendor agrees to all CJIS and NIST compliance. Cost for internal resources to support the application will be very low.

Solution reduces implementation risks and user acceptance failure by leveraging industry best practices based on the vendors' business experience.

Solution will require very little to no additional development/configuration because there will be not integration with current databases or business processes.

Solution will work in conjunction with current configuration in LED Vehicles, iOS, Pepwave.

Disadvantages: The solution may not address all department desirable requirements.

Anticipated Time to Achieve Objectives After Project Go-Live

(Choose one: Within 1 Year, 2 Years, 3 Years, 4 Years, Over 4 Years) 2 Yrs

Objective Number: 1.1 Decrease in citizens' complaints, increase in public trust with increased transparency and increase in perceived legitimacy and sense of procedural justice. 10% decrease or more 1 year after full deployment.
Objective Timeframe 2 years

Objective Number: 2.1 Increase in use-of-force related video/audio documentation. Increase from zero recorded incidents**.** 1 year after full deployment.

Objective Timeframe 2 years

Objective Number: 3.1 Identify potential training opportunities based on the video gathered from the incidents. Increase from zero training identified through recorded evidence 1 year after full deployment.

Objective Timeframe 2 years

Anticipated Time to Achieve Financial Benefits after Project Go-Live

Increased Revenues: Choose an item.

Cost Savings: Choose an item.

Cost Avoidance: **2 years**

Cost Recovery: Choose an item.

- **2.10.5 Assumptions and Constraints**

Assumptions/Constraints: This is a new system for the department and organizational change management and training will need to be provided to LED staff before adoption.

Description/Potential Impact: Although the majority of Wildlife Officers are supportive of the implementation of body worn and in car cameras for officer safety. It still represents a change in their everyday activities. It will be important to have an organizational change management plan in place and adequate training.

- **2.10.6 Implementation Approach**

Identify the type of existing IT system enhancement or new system proposed

(Answer Yes or No for each)

Enhance the current system: No

Develop a new custom solution: No

Purchase a Commercial off-the-Shelf (COTS) system: No

Purchase or obtain a system from another government agency (Transfer): No

Subscribe to a Software as a Service (SaaS) system: Yes

Other: Choose an item. Specify: Click or tap here to enter text.

Identify cloud services to be leveraged (Answer Yes or No for each)

Software as a Service (SaaS) provided by OTech: No

Software as a Service (SaaS) provided by commercial vendor: Yes

Platform as a Service (PaaS) provided by OTech: No

Platform as a Service (PaaS) provided by commercial vendor: Yes

Infrastructure as a Service (IaaS) provided by OTech: Choose an item.

Infrastructure as a Service (IaaS) provided by commercial vendor: Choose an item.

If no cloud services will be leveraged by this alternative, provide a justification of why cloud services are not being leveraged: Click or tap here to enter text.

Identify who will modify the existing system or create the new system (Select Yes or No for each)**:**

Agency/state entity IT staff: No

A vendor will be contracted: Yes

Inter-agency agreement will be established with another governmental agency. No

Specify agency name(s): Click or tap here to enter text.

Other: Choose an item. Specify: Click or tap here to enter text.

Identify the implementation strategy:

All requirements will be addressed in this proposed project in a single implementation. Yes

Requirements will be addressed in incremental implementations in this proposed project. No

Some requirements will be addressed in this proposed project. The remaining requirements will be addressed at a later date: No

Specify the year when the remaining requirements will be addressed: Click or tap here to enter text.

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. Yes

- **2.10.7 Architecture Information**

Business Function/Process(es): Please refer to B.3 Stage 2 Mid-Level Requirements document.

Application, System, or Component: Click or tap here to enter text.

TIP: Copy and paste to add an Application, System, or Component as needed.

COTS, MOTS, or Custom: COTS

Name/Primary Technology: Cameras

Runtime Environment

Cloud Computing Used: Yes

If "Yes," specify: SaaS - Software as a Service

Server/Device Function: File Storage, AI, Data Management, Logging and COC

Hardware: Cameras

Operating System: TBD

System Software: TBD

TIP: Copy and paste to add system software information if the application, system, or component uses additional system software.

System Interfaces: Warden Tablets, iPhones, Web browser

Data Center Location: Other

If Other, specify: Commercial Data Center, rated for Gov Cloud

Security

Access: (answer Yes or No to all choices)

Public: No

Internal State Staff: Yes

External State Staff: Yes

Other: Yes Specify: External law enforcement by legal procedure (such as courts)

Type of Information (answer Yes or No to all choices)

Personal: Yes

Health: Yes

Tax: Yes

Financial: Yes

Legal: Yes

Confidential: Yes

Other Yes Specify: CJIS

Protective Measures (answer Yes or No to all choices)

Technical Security: Yes

Physical Security: Yes

Backup and Recovery: Yes

Identity Authorization and Authentication: Yes

Other, specify: CJIS Compliant

Data Management

Data Owner Name: CDFW

Data Owner Title: LED Chief

Data Owner Business Program: LED

Data Custodian Name: Vendor

Data Custodian Title: Vendor

Data Custodian Business Program: LED

TIP: Copy and paste to add Business Functions/Processes as needed,

2.11 Recommended Solution

- **2.11.1 Rationale for Selection:** CDFW is only putting forward one recommended solution. Based on our needs and market research CDFW only found one viable recommendation that can be pursued

- **2.11.2 Technical/Initial CA-PMM Complexity Assessment**

  (Reference section 2.11.2 in the Stage 2 Alternative Analysis Preparation Instructions, SIMM19B.1 and Complexity Assessment instructions SIMM Section 45D.)

  Technical Complexity Score: 2.0

  Complexity Zone: Zone II/III - Medium Criticality/Risk

- **2.11.3 Procurement and Staffing Strategy**

  Select an **Activity**: Solicitation Development

  Responsible (answer Yes or No to all choices)

  Agency/state entity staff: Yes

  STP staff: Yes

  CDT Project Approvals and Oversight staff: No

  CA-PMO staff: No

  DGS staff: No

  Contractor: Yes

  Other: Choose an item. Specify: Click or tap here to enter text.

  When Needed (answer Yes or No to all choices.)

  Stage 3 Solution Development: Yes

  Stage 4 Project Readiness and Approval: Yes

  After project is approved (after Stage 4 Project Readiness and Approval): Yes

  Cost Estimate Verification (answer Yes or No to all choices)

  Market research conducted (MR): Yes

  Cost estimate provided (CE): Yes

  CDT CE: Yes

  DGS CE: No

Request for Information (RFI) conducted: Yes

Comparable vendor services have been used on previous contracts (CV): No

Leveraged Procurement Agreement (LPA): No

Complete Only if Contractor Responsible for Activity

Procurement Vehicle: Formal Solicitation (IFB/ RFP)

If Other, specify: Two step best value

Contract Type**:** Fixed Price (FP)

If Other, specify: Click or tap here to enter text.

DGS Delegated Purchasing Authority

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? Yes

- **2.11.4 Enterprise Architecture Alignment:** Click or tap here to enter text.**,**

Information Technology Capability (Select Yes or No to identify capabilities that may be needed for this project.)

Public or Internal Portal/Website Yes: Choose an item.

Public or Internal Mobile Application Yes: Choose an item.

Enterprise Service Bus:No Choose an item.

Identity and Access Management:Yes Choose an item.

Enterprise Content Management (including document scanning and eForms capabilities) Yes: Choose an item.

Business Intelligence and Data Warehousing Yes: Choose an item.

Master Data Management: Yes Choose an item.

Big Data Analytics:Yes Choose an item.

- **2.11.5 Project Phases**

Phase Title: Click or tap here to enter text.

Description: Click or tap here to enter text.

Phase Deliverable: Click or tap here to enter text.

Phase Title: Click or tap here to enter text.

Description: Click or tap here to enter text.

Phase Deliverable: Click or tap here to enter text.

Phase Title: Click or tap here to enter text.

Description: Click or tap here to enter text.

Phase Deliverable: Click or tap here to enter text.

- **2.11.6 High Level Proposed Project Schedule**

Proposed Project Planning Start Date: 6/1/2020

Proposed Project Planning End Date: 2/28/2022

Proposed Project Execution Start Date: 8/25/2022

Proposed Project Execution End Date: 3/1/2024

Activity Name: Solicitation Development

Start Date: 3/1/2022

End Date: 5/31/2022

Activity Name: Solicitation Package Review

Start Date: 6/8/2022

End Date: 6/20/2022

Activity Name: Stage 4 Project Readiness and Approval

Start Date: 6/24/2022

End Date: 6/30/2022

Activity Name: Solicitation Release

Start Date: 7/15/2022

End Date: 8/26/2022

Activity Name: Solicitation Protest Period

Start Date: 8/26/2022

End Date: 9/2/2022

Activity Name: Solicitation Award

Start Date: 9/5/2022

Activity Name: Testing

Start Date: 10/3/2022

Start Date: 10/24/2022

Activity Name: Go Live

Click or tap to enter a date.

End Date: 11/14/2022

Activity Name: Deployment

Start Date: 1/2/2023

End Date: 7/31/2024

End Date: 7/31/2024

2.11.7 Cost Summary

Total Proposed Planning Cost: $560,000 + $250,000 to contract with vendor to help CDFW with the RFP development

Total Proposed Project Cost: $6,500,000

Total Proposed Future Operations IT Staff & OE&E Cost (Continuing): TBD

Total Proposed Annual Future Operations IT Cost (M&O): Subscription/Cloud annual costs TBD

2.12 Staffing Plan

- **2.12.1 Administrative**

  1 PY LED HQ staff

- **2.12.2 Business Program**

  Click or tap here to enter text.

- **2.12.3 Information Technology**

  2 PY ITS I

- **2.12.4 Testing**

  12 DBEEP Offficers, 3 LED -HQ Lt Specialist (for Oversite)

- **2.12.5 Data Conversion/Migration**

  NA

- **2.12.6 Training and Organizational Change Management**

12 Officer district coordinators, 3 LED HQ Staff. In addition, 1 officer and 2 ITS Is to interface with vendor and PSC to install vehicle cameras (there are 40 install shops for installations)

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

Proposing using vendor to help us develop solicitation and final requirements, plus 3 LED HQ, 12 RC's and 2 IT staff

- **2.12.8 Project Management**
- **2.12.8.1 Project Management Risk Assessment**

  Project Management Risk Score: Low Medium

  (Attach PM Risk Assessment to the email submission. SIMM Section 45C)

- **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? (Choose: Yes, No, Not Applicable. If No or Not Applicable, provide the artifact status in the space provided.)

  Project Charter: No, Click or tap here to enter text.

  Scope Management Plan: No, Click or tap here to enter text.

  Risk Management Plan: Yes, Started a Risk log

  Issue and Action Item Management Plan: No, Started Issue Log

  Communication Management Plan: No, Click or tap here to enter text.

  Schedule Management Plan: No, Click or tap here to enter text.

  Human Resource Management Plan: No, Click or tap here to enter text.

  Staff Management Plan: No, Click or tap here to enter text.

  Stakeholder Management Plan: Choose an item., Click or tap here to enter text.

  Governance Plan: No, Click or tap here to enter text.

- **2.12.9 Organization Charts:**

  (Attach Organization Charts to the email submission.)

2.13 Data Conversion/Migration

Identify the status of each of the following data conversion/migration activities. If Not Applicable, explain why the activity is not applicable or if Not Started, explain when the activity is planned to begin and anticipated to be completed:

Data Conversion/Migration Planning: Not Applicable, No current data, new service

Data Conversion/Migration Requirements: Not Applicable, No current data, new service

Current Environment Analysis: In Progress, As it relates to possible integration or if any data needs to be downloaded and/or stored

Data Profiling: Not Applicable, all below will be vendor responsibility

Data Quality Assessment: Not Applicable

Data Quality Business Rules: Not Applicable

Data Dictionaries: Not Applicable

Data Cleansing and Correction: Not Applicable

2.14 Financial Analysis Worksheets

(Attach Financial Analysis Worksheet(s) to the email submission.)

Department of Technology Use Only

Original “New Submission” Date: 2/23/2022

Form Received Date: 2/23/2022

Form Accepted Date: 2/23/2022

Form Status: Completed

Form Status Date: 5/13/2022

Form Disposition: Approved

Form Disposition Date: 5/13/2022