PERFORMANCE WORK STATEMENT (PWS)

Office of Cost Assessment and Program Evaluation (OSD-CAPE)
Enterprise Visibility and Management of Operating and Support Cost (EVAMOSC) Increment 1

General Information

1. **GENERAL:** This is a non-personnel services contract to provide *database design, implementation, operation, and data platform sustainment services*. The Government shall not exercise any supervision or control over the contract service providers performing the services herein. Such contract service providers shall be accountable solely to the Contractor who, in turn is responsible to the Government.

1.1 Description of Services/Introduction: The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personnel services necessary to perform *database design, implementation, operation, and data platform sustainment services* as defined in this Performance Work Statement except for those items specified as government furnished property and services. The contractor shall perform to the standards in this contract.

1.2 Background: The mission of the Office of the Secretary of Defense Cost Assessment and Program Evaluation (OSD-CAPE) is to provide the Department of Defense (DoD) with timely, insightful and unbiased analysis on resource allocation and cost estimation problems to deliver the optimum portfolio of military capabilities through efficient and effective use of each taxpayer dollar. In achieving this mission, one of OSD-CAPE's primary goals is to provide data driven insight into the costs of major acquisition programs. This detailed analysis will enable responsible budgeting and proactive management decisions so that the Department can control cost and achieve savings. In recent years, the DoD has focused on understanding the costs incurred by weapons systems during the sustainment phase and underlying causes of these cost outcomes. However, despite renewed emphasis on controlling sustainment costs, the DoD lacks complete, accurate, and granular data on operating and support (O&S) costs for many major acquisition programs, including ground vehicles.

Section 2337a, Title 10, US Code assigns responsibility for "developing and maintaining a database on … actual operating and support costs for major weapons systems" to the Director, CAPE. While OSD-CAPE has historically administered its responsibility for O&S cost data via policy for Military Department data requirements, the enterprise O&S data base required by Title 10 does not currently exist within the DoD. The lack of available O&S cost data has made it difficult to calculate sustainment costs for multiple systems, including ground vehicles. To address these deficiencies, OSD-CAPE will develop a data platform to simultaneous address current O&S cost data deficiencies and its statutory requirement. The resulting Enterprise Visibility and Management of Operating and Support Costs (EVAMOSC) data platform will address known issues with O&S cost data completeness, accuracy, granularity, and reporting frequency.

OSD-CAPE intends to develop and deploy the EVAMOSC system in increments. This Performance Work Statement covers the tasks and objectives associated with EVAMOSC Increment 1, which will aim to meet O&S cost data requirements for U.S. Army and U.S. Marine Corps (USMC) major weapons systems during the base period. The base period will focus primarily on the ground vehicle commodity group but will also work to meet cost data requirements for other commodities (e.g., rotary wing aircraft) with similar underlying source data systems. The contract option periods and follow-on increments will address cost data requirements for U.S. Navy and U.S. Air Force major weapons systems, in addition to the long term sustainment of the EVAMOSC platform. Whereas Army and USMC O&S cost data is relatively incomplete or missing in many cases, the Navy and Air Force currently have robust O&S cost data systems for certain commodity groups (e.g., ships and aircraft). This contract's option periods and follow-on increments focusing on Navy and Air Force will primarily entail integration of existing data maps into EVAMOSC and improvement of reporting.

1.3 Objective: The primary objective of this effort is to develop, deploy, and sustain the EVAMOSC data platform. EVAMOSC will serve as the DoD's authoritative O&S cost data source for major weapons systems, as required by Section 2337a, Title 10 U.S. Code. Further, the data in EVAMOSC will align to the cost element structure outlined in the OSD-CAPE 2014 Operating and Support Cost-Estimating Guide.

As stated above, EVAMOSC Increment 1 will primarily focus on developing a database to collect U.S. Army and Marine Corps major weapons systems, but EVAMOSC's design and architecture must be scalable to include weapon systems from across the DoD in future increments. This platform will incorporate data fusion and analytics technologies for ingesting, aggregating, standardizing, visualizing, reporting, and securing a large amount of data (i.e., over 75 sources) from an array of systems currently serving multiple functional communities: financial management, logistics, maintenance, human resources, property, and acquisition. The primary challenge in this effort is development of the business rules and logic model required to map O&S cost data from the aforementioned disparate functional areas to individual weapons, a task none of the upstream data systems were implemented to support.

This effort will demonstrate an enhanced capability to aggregate and fuse multiple data sources to provide complete, accurate, and granular O&S cost profiles at a required frequency (monthly in most cases). This investment in O&S cost data infrastructure will improve the DoD's ability to understand the costs associated with operating and sustaining major weapons, the quality of lifecycle cost estimates for future programs, and the capability to identify and manage root causes of O&S cost growth.

1.4 Scope: *The contractor shall perform database design, implementation, operation and data platform sustainment support, to include technical, administrative, and professional services, for the purpose of developing and implementing the OSD-CAPE EVAMOSC system.*

1.5 Period of Performance: The period of performance shall be for *one (1) Base Period of 30 months and two (2) 12-month option periods*. The Period of Performance reads as follows:

Base Period: *01APR2020 to 30SEP2022*
Option Period One: *01OCT2022 to 30SEP2023*
Option Period Two: *01OCT2023 to 30SEP2024*

1.6 General Information:

1.6.1 Quality Control: The contractor shall develop and maintain an effective quality control program to ensure services are performed in accordance with this PWS. The contractor shall develop and implement procedures to identify, prevent, and ensure non-recurrence of defective services. The contractor's quality control program is the means by which he assures himself that his work complies with the requirement of the contract. The QCP shall be delivered via electronic mail within 30 days of contract award. Amendments/changes to the QCP shall be delivered to the task monitor (TM), COR and KO within three business days following any change.

1.6.2 Quality Assurance: The government shall evaluate the contractor's performance under this contract in accordance with the Quality Assurance Surveillance Plan. This plan is primarily focused on what the Government must do to ensure that the contractor has performed in accordance with the performance standards. It defines how the performance standards will be applied, the frequency of surveillance, and the minimum acceptable defect rate(s).

1.6.3 Recognized Holidays: The contractor is not required to perform service on the following holidays:

New Year's Day	Labor Day
Martin Luther King Jr.'s Birthday	Columbus Day
President's Day	Veteran's Day
Memorial Day	Thanksgiving Day
Independence Day	Christmas Day

1.6.4 Hours of Operation: The contractor is responsible for conducting business, between the OSD-CAPE core hours of 8:00 AM to 5:00 PM, arriving no earlier than 6:30 AM and departing no later than 6:30 PM Monday thru Friday except Federal holidays or when the Government facility is closed due to local or national emergencies, administrative closings, or similar Government directed facility closings. For other than firm fixed price contracts, the contractor will not be reimbursed when the government facility is closed for the above reasons. The Contractor must at all times maintain an adequate workforce for the uninterrupted performance of all tasks defined within this PWS when the Government facility is not closed

for the above reasons. When hiring personnel, the Contractor shall keep in mind that the stability and continuity of the workforce are essential.

1.6.5 Place of Performance: The primary places of performance will be the Government facilities in the Washington/Northern Virginia area (estimated 40%); and contractor workspaces (estimated 60%). The Government will furnish office space and office equipment for work performed at Government facilities. Contractor personnel may be requested to work at the Government's alternate locations during emergencies and emergency exercises. Individual Contractor personnel may be designated as essential personnel to support contingency operations at alternate Government locations during actual emergencies and emergency exercises.

1.6.6 Type of Contract: The government will award a *firm fixed price contract*.

1.6.7 Security Requirements: Unless stated elsewhere, all Contractor personnel performing work under this contract must have and maintain a final Secret security clearance. The security requirements are in accordance with the attached DD Form 254 which *will be provided to the Contractor upon award of the contract*. The Contractor shall comply with all security policies and procedures that apply to DoD and OSD-CAPE. Security procedures shall be made available to Contractor personnel upon award of the contract.

1.6.7.1 Physical Security: The contractor shall be responsible for safeguarding all government equipment, information, and property provided for contractor use. At the close of each work period, government facilities, equipment, and materials shall be secured. The government will provide necessary credentials and training to individuals working in OSD-CAPE spaces to ensure all personnel are able to comply with opening and closure procedures for OSD-CAPE's open-Secret spaces.

1.6.7.2 Key Control: The Contractor shall establish and implement methods of making sure all keys/key cards issued to the Contractor by the Government are not lost or misplaced and are not used by unauthorized persons. NOTE: All references to keys include key cards. No keys issued to the Contractor by the Government shall be duplicated. The Contractor shall develop procedures covering key control that shall be included in the Quality Control Plan. Such procedures shall include turn-in of any issued keys by personnel who no longer require access to locked areas. The Contractor shall immediately report any occurrences of lost or duplicate keys/key cards to the Contracting Officer.

1.6.7.2.1. In the event keys, other than master keys, are lost or duplicated, the Contractor shall, upon direction of the Contracting Officer, re-key or replace the affected lock or locks; however, the Government, at its option, may replace the affected lock or locks or perform re-keying. When the replacement of locks or re-keying is performed by the Government, the total cost of re-keying or the replacement of the lock or locks shall be deducted from the monthly payment due the Contractor. In the event a master key is lost or duplicated, all locks and keys for that system shall be replaced by the Government and the total cost deducted from the monthly payment due the Contractor.

1.6.7.2.2. The Contractor shall prohibit the use of Government issued keys/key cards by any persons other than the Contractor's employees. The Contractor shall prohibit the opening of locked areas by Contractor employees to permit entrance of persons other than Contractor employees engaged in the performance of assigned work in those areas, or personnel authorized entrance by the Contracting Officer.

1.6.7.3 Lock Combinations. The Contractor shall establish and implement methods of ensuring that all lock combinations are not revealed to unauthorized persons. The Contractor shall ensure that lock combinations are changed when personnel having access to the combinations no longer have a need to know such combinations. These procedures shall be included in the Contractor's Quality Control Plan.

1.6.8 Special Qualifications: Contractor personnel will be required to sign a Non-Disclosure Agreement

1.6.9 Post Award Conference/Periodic Progress Meetings: The Contractor agrees to attend any post award conference convened by the contracting activity or contract administration office in accordance with Federal Acquisition Regulation Subpart 42.5. The contracting officer, Contracting Officers Representative (COR), OSD-CAPE task monitor (TM), and other Government personnel, as appropriate, may meet periodically with the contractor to review the contractor's performance. At these meetings the contracting

officer will apprise the contractor of how the government views the contractor's performance and the contractor will apprise the Government of problems, if any, being experienced. Appropriate action shall be taken to resolve outstanding issues. These meetings shall be at no additional cost to the government.

1.6.10 Contracting Officer Representative (COR): The (COR) will be identified by separate letter. The COR monitors all technical aspects of the contract and assists in contract administration. The COR is authorized to perform the following functions: assure that the Contractor performs the technical requirements of the contract; perform inspections necessary in connection with contract performance; maintain written and oral communications with the Contractor concerning technical aspects of the contract; issue written interpretations of technical requirements, including Government drawings, designs, and specifications; monitor Contractor's performance and notify both the Contracting Officer and Contractor of any deficiencies; coordinate availability of government furnished property; and provide site entry of Contractor personnel. A letter of designation issued to the COR, a copy of which is sent to the Contractor, states the responsibilities and limitations of the COR, especially with regard to changes in cost or price, estimates or changes in delivery dates. The COR is not authorized to change any of the terms and conditions of the resulting order.

1.6.11 Key Personnel: The personnel listed below are considered essential to the work being performed under this contract. Before removing, replacing, or diverting any of the listed or specified personnel or facilities, the Contractor shall (1) notify the Contracting Officer reasonably in advance and (2) submit justification (including proposed substitutions) in sufficient detail to permit evaluation of the impact on this contract. The Contractor shall make no diversion without the Contracting Officer's written consent; provided that the Contracting Officer may ratify in writing the proposed change, and that ratification shall constitute the Contracting Officer's consent required by this document. See Attachment 4 for required and preferred personnel qualifications for these individuals:

Program Manager
Systems Engineer
Systems Architect
Security Administrator
Senior Cost Analyst
Functional Expert Consultant
Subject Matter Expert

1.6.12 Identification of Contractor Employees: All contract personnel attending meetings, answering Government telephones, and working in other situations where their contractor status is not obvious to third parties are required to identify themselves as such to avoid creating an impression in the minds of members of the public that they are Government officials. They must also ensure that all documents or reports produced by contractors are suitably marked as contractor products or that contractor participation is appropriately disclosed. Contractor personnel will be required to obtain, use, and display a Common Access Card in the performance of this service.

1.6.13 Contractor Travel: Contractors may be required to travel as part of this PWS. A list of potential locations, frequencies, and number of traveling personnel, annually, is listed below to facilitate a travel estimate.

Location	**Annual Frequency**	**Number of Contractor Travelers**
Detroit, MI	2	2
Albany, GA	2	2
Huntsville, AL	2	2

Travel to and from the contractors' normal place of duty will be not be covered by the Government under this contract. Parking expenses at the normal place of duty, commuter lots, or metro parking garages will not be paid by the Government under this contract.

1.6.14 Other Direct Costs: The contractor shall be responsible, at the direction of the COR, for purchasing any software licenses, hardware, and/or virtual computing products required for performance of the architecture tasks described in Part 5 of this PWS. OSD-CAPE will leverage existing government contract

vehicles, where feasible or required, to purchase these products. However, this contract vehicle may, on a case-by-case basis, serve as the most cost-effective and timely method of procuring these products. Examples of such ODCs may include: virtual computing instances, virtual tool infrastructure, Crowd licenses, Confluence licenses, etc.

1.6.15 Data Rights: The Government has unlimited rights to all documents and material produced under this contract. Any and all source code, models, prototypes, programming, language, licensure, enterprise-wide rights, software, Contract Data Requirement Lists (CDRLs), manuals, training documents, and other similar products and related data developed, modified, or created under this PWS shall be exclusively at the United States (U.S.) Government's expense. Per DFARS 252.227-7014(b)(1), all of these items must be delivered to the U.S. Government with unlimited rights. As such, the Government may use, modify, reproduce, release, perform, display, or disclose the source code in whole or in part, in any manner and for any purpose whatsoever, and it may authorize others to do so. These documents and materials, exemplified in the list above, may not be used or sold by the contractor without written permission from the Contracting Officer. This right does not abrogate any other Government rights.

1.6.16 Organizational Conflict of Interest: Contractor and subcontractor personnel performing work under this contract may receive, have access to or participate in the development of proprietary or source selection information (e.g., cost or pricing information, budget information or analyses, specifications or work statements, etc.) or perform evaluation services which may create a current or subsequent Organizational Conflict of Interests (OCI) as defined in FAR Subpart 9.5. The Contractor shall notify the Contracting Officer immediately whenever it becomes aware that such access or participation may result in any actual or potential OCI and shall promptly submit a plan to the Contracting Officer to avoid or mitigate any such OCI. The Contractor's mitigation plan will be determined to be acceptable solely at the discretion of the Contracting Officer and in the event the Contracting Officer unilaterally determines that any such OCI cannot be satisfactorily avoided or mitigated, the Contracting Officer may affect other remedies as he or she deems necessary, including prohibiting the Contractor from participation in subsequent contracted requirements which may be affected by the OCI.

1.6.17 Phase In/Phase Out Period: To minimize any decreases in productivity and to prevent possible negative impacts on additional services, the Contractor shall have personnel on board during the 30-day phase in/phase out periods.

1.6.17.1 Phase In Period: During the phase in period, the Contractor shall facilitate the accomplishment of a seamless transition. Phase in services shall begin on the effective date of the award and shall be complete on the date which is 30 days after the effective date when the contractor will assume full responsibility for Tasks 5.2 and beyond in Part 5 of this PWS. The Contractor shall establish an overview of the transition efforts and describe the activities to transition, which shall include a schedule with milestones by activity. The Contractor shall identify points of contact (POCs) for liaison between the Government, the prime contractor, and other contracted industry partners to ensure a proper and orderly transition and transfer of services and assets between the parties cited. The contractor shall support the transition of Government funded property.

1.6.17.1 Phase Out Period: The Contractor shall develop and execute a Phase Out Plan that shall facilitate the accomplishment of a seamless transition from the incumbent to incoming contractor or Government personnel at the expiration of the order. Provide a Transition-Out Plan no later than (NLT) 60 days prior to expiration of the order. Identify how it shall coordinate with the incoming and or Government personnel to transfer knowledge regarding key aspects of the EVAMOSC system. (Deliverable: Transition-Out Plan). The Contractor shall ensure minimum disruption to vital Government business. The Contractor shall ensure that there shall be no service degradation during or after transition.

PART 2
DEFINITIONS & ACRONYMS

2. **DEFINITIONS AND ACRONYMS:**

2.1. DEFINITIONS:

2.1.1. CONTRACTOR. A supplier or vendor awarded a contract to provide specific supplies or service to the government. The term used in this contract refers to the prime.

2.1.2. CONTRACTING OFFICER. A person with authority to enter into, administer, and or terminate contracts, and make related determinations and findings on behalf of the government. Note: The only individual who can legally bind the government.

2.1.3. CONTRACTING OFFICER'S REPRESENTATIVE (COR). An employee of the U.S. Government appointed by the contracting officer to administer the contract. Such appointment shall be in writing and shall state the scope of authority and limitations. This individual has authority to provide technical direction to the Contractor as long as that direction is within the scope of the contract, does not constitute a change, and has no funding implications. This individual does NOT have authority to change the terms and conditions of the contract.

2.1.4. DEFECTIVE SERVICE. A service output that does not meet the standard of performance associated with the Performance Work Statement.

2.1.5. DELIVERABLE. Anything that can be physically delivered, but may include non-manufactured things such as meeting minutes or reports.

2.1.6. KEY PERSONNEL. Contractor personnel that are evaluated in a source selection process and that may be required to be used in the performance of a contract by the Key Personnel listed in the PWS. When key personnel are used as an evaluation factor in best value procurement, an offer can be rejected if it does not have a firm commitment from the persons that are listed in the proposal.

2.1.7. PHYSICAL SECURITY. Actions that prevent the loss or damage of Government property.

2.1.8. QUALITY ASSURANCE. The government procedures to verify that services being performed by the Contractor are performed according to acceptable standards.

2.1.9. QUALITY ASSURANCE Surveillance Plan (QASP). An organized written document specifying the surveillance methodology to be used for surveillance of contractor performance.

2.1.10. QUALITY CONTROL. All necessary measures taken by the Contractor to assure that the quality of an end product or service shall meet contract requirements.

2.1.11. SUBCONTRACTOR. One that enters into a contract with a prime contractor. The Government does not have privity of contract with the subcontractor.

2.1.12. WORK DAY. The number of hours per day the Contractor provides services in accordance with the contract.

2.1.12. WORK WEEK. Monday through Friday, unless specified otherwise.

2.2. ACRONYMS:

API	Application Programming Interface
BCTF	Boards, Commissions, and Task Forces
CAPE	Cost Assessment and Program Evaluation
CFR	Code of Federal Regulations

CONUS	Continental United States (excludes Alaska and Hawaii)
COR	Contracting Officer Representative
COTR	Contracting Officer's Technical Representative
COTS	Commercial-Off-the-Shelf
DD Form 254	Department of Defense Contract Security Requirement List
DFARS	Defense Federal Acquisition Regulation Supplement
DMDC	Defense Manpower Data Center
DOD	Department of Defense
EVAMOSC	Enterprise Visibility and Management of Operating and Support Costs
FAR	Federal Acquisition Regulation
FTR	Final Technical Report
HIPAA	Health Insurance Portability and Accountability Act of 1996
KO	Contracting Officer
OCI	Organizational Conflict of Interest
OCONUS	Outside Continental United States (includes Alaska and Hawaii)
ODC	Other Direct Costs
O&S	Operating and Support Cost
PIPO	Phase In/Phase Out
POC	Point of Contact
PRS	Performance Requirements Summary
PWS	Performance Work Statement
QA	Quality Assurance
QAP	Quality Assurance Program
QASP	Quality Assurance Surveillance Plan
QC	Quality Control
QCP	Quality Control Program
RMF	Risk Management Framework
SIA	System Interface Agreement
SME	Subject Matter Expert
TE	Technical Exhibit
TM	Task Monitor
WHS	Washington Headquarters Services

PART 3
GOVERNMENT FURNISHED PROPERTY, EQUIPMENT, AND SERVICES

3. GOVERNMENT FURNISHED ITEMS AND SERVICES:

3.1. Services: The government will provide basic services to phones, desks, utilities, information technology, and general office supplies) while working in Government facilities.

3.2 Facilities: Basic facilities such as work space and its associated operating requirements (i.e., phones, desks, utilities, information technology, and general office supplies) will be provided while working in Government facilities. Tele-workers will only use government furnished equipment to remotely access the OSD-CAPE network.

3.3 Equipment: The Government will provide will provide basic services to phones, desks, utilities, information technology, and general office supplies) while working in Government facilities. Tele-workers will only use government furnished equipment to remotely access the OSD-CAPE network. Additionally, the Government will provide access to government furnished computers to provide access to OSD-CAPE networks and For Official Use Only data.

3.4 Information: The Government will provide the contractor with access to information as necessary to complete the tasking under this contract. Any Government Furnished Information (GFI) such as federal policies, directives, instructions and documents provided during performance of/or resulting from this PWS shall be provided with a Distribution Statement setting forth the disclosure limitations with which the contractor must comply. In the event that GFI is provided without a Distribution Statement, any disclosure shall be in accordance with DFARS 252.204-7000, Disclosure of Information. The contractor shall treat technical data in its possession as Government sensitive information that is not to be released outside of the originating organization.

PART 4
CONTRACTOR FURNISHED ITEMS AND SERVICES

4. CONTRACTOR FURNISHED ITEMS AND RESPONSIBILITIES:

4.1 General: The Contractor shall furnish all supplies, equipment, facilities and services required to perform work under this contract that are not listed under Part 3 of this PWS.

4.2 Secret Facility Clearance: The contractor shall possess and maintain a SECRET facility clearance from the Defense Security Service. The Contractor's employees, performing work in support of this contract shall have been granted a SECRET security clearance from the Defense Industrial Security Clearance Office. The DD 254 *will be forwarded to the contractor upon award of the contract*.

4.3. Materials: In accordance with FAR clause 52.245-1, title of property (including material, information, and other direct costs) purchased by the contractor, for which the contractor is entitled to be reimbursed as a direct item of cost under this task order, shall pass to and vest in the Government upon:

- Issuance of the property for use in task order performance,
- Commencement of processing of the property for use in the task order performance, or
- Reimbursement of the cost of the property by the Government (whichever occurs first)

As discussed in paragraph 1.6.14 "Other Direct Costs," the contractor shall be responsible, at the direction of the COR, for purchasing any software licenses, hardware, and/or virtual computing products required for performance of the architecture tasks described in Part 5 of this PWS. OSD-CAPE will leverage existing government contract vehicles, where feasible or required, to purchase these products. However, this contract vehicle may, on a case-by-case basis, serve as the most cost-effective and timely method of procuring these products. Examples of such ODCs may include: virtual computing instances, virtual tool infrastructure, Crowd licenses, Confluence licenses, etc.

4.4. Equipment: NA

PART 5
SPECIFIC TASKS

5. SPECIFIC TASKS:

5.1. Basic Services: The contractor shall provide all personnel, equipment, supplies, facilities, transportation, tools, materials, supervision, and other items and non-personnel services necessary to perform *database design, implementation, operation, and data platform sustainment services* to support OSD-CAPE's EVAMOSC initiative. *Tasks will include program management; design, develop, and maintain an Enterprise O&S data platform; EVAMOSC data acquisition; analytics and dashboard development; system user management; and platform sustainment.*

5.2. Program Management:

5.2.1 Post Award Orientation: The Post-Award Orientation shall be held within 7 calendar days of the start of performance. Schedule and conduct this meeting, in coordination with the Task Monitor (TM), Contracting Officer's Representative (COR), and CO. The purpose of the Post-Award Orientation is to: 1) discuss any unique characteristics of the requirement(s); 2) identify stakeholders' roles and responsibilities; 3) review the 30 day transition-in to full performance, and 4) establish a common understanding of cost, schedule, and performance expectations (Deliverable: Post Award Brief Slides and Minutes with Attendees List).

5.2.2 Program Management Plan: Provide a Program Management Plan (PMP) within 15 days after start of performance. The Program Management Plan shall provide a resource-loaded schedule that outlines the steps that will be taken, the timeline to completion, and any associated risks with execution of the order. The PMP will be updated within 15 days of each new project. The update shall specify estimated project start and stop dates as well as a risk mitigation plan and a budget aligned to key milestones within the project, to include any anticipated Other Direct Costs (ODCs). The update should highlight any interdependencies within the tasks and the project(s) schedules. Upon acceptance and approval by the Government, the contractor shall meet the cost, schedule and forecasted delivery date of all deliverables by taking all reasonable measures to fulfill the requirement (Deliverable: Program Management Plan (PMP)) and shall report monthly status updates in the Monthly Status Report (MSR).

5.2.3 Monthly Status Report. Submit a Monthly Status Report. The MSR shall provide detailed status for the project(s) within the PMP as well as capture an overall status of the order. The MSR reports cost, schedule, and performance against PMP requirements and identifies status of funding, planned versus actual expenditures per project, total monthly and cumulative ODC expenditures, status of known risks, risk mitigation efforts, deliverables funded and date they were funded, technical progress made and schedule status per deliverable, the titles, dates and number(s) of deliverables completed, and the deliverables scheduled to be delivered during the upcoming month. The MSR shall report all Military Interdepartmental Purchase Request (MIPRs) received and shall detail the funding. Specific MSR format, and any additional content not specified in this section, shall be mutually agreed upon by the contractor and TM; this should be established no later than the Post-Award Orientation. If the MSR shows that a project is not meeting the performance standards set forth in the Service Summary found in Section 6.0, the contractor shall provide the rationale and circumstances preventing the standards from being met. (Deliverable: Monthly Status Report).

5.2.4 Quarterly Program/Project Management Reviews: Conduct quarterly program/project management reviews with the TM to include detailed information on cost, schedule, performance, risk assessment, and risk mitigation plans (Deliverable: Quarterly Program/Project Management Review).

5.2.4 Final Technical Report: Prior to expiration of the Period of Performance (PoP), submit a Final Technical Report (FTR). The FTR shall include contract-specific background information, objectives, assumptions, specific data collected, conclusions, analyses conducted, and recommendations. Each report shall be delivered to the TM and COR (Deliverable: Final Technical Report).

5.2.6 Redacted Contract: Within 30 days of start of performance, provide a redacted copy of the awarded contract that is appropriate for public release, which the Government intends to post to a public web site (Deliverable: Redacted Contract).

5.2.7 Contractor Acquired Property (CAP) Report: Contractor Acquired Property (CAP) Report. Provide copies of the DD Form 250 Material Inspection and Receiving report for all Contractor Acquired Property acquired via Other Direct Cost charging (Deliverable: Contractor Acquired Property Report).

5.3 Design, Develop, and Maintain an Enterprise O&S Data Platform:

5.3.1 Design and Develop an EVAMOSC data platform: Design, develop, and implement solutions to store, rapidly access, and maintain large, UNCLASSIFIED (Impact Level 4) DoD data sets to support a range of O&S cost analytics requirements. Provide a secure and scalable repository of all data types and origins that can scale to 100 terabytes (TB) of data for the primary purpose of collecting, aggregating, and reporting O&S costs for major weapons systems. Integrate both open source and Commercial-Off-the-shelf (COTS) components to make data available for a wide breadth of analysis. Develop recommendations on hardware and software to ensure scalability and performance of the data platform. Provide engineering techniques to ensure that data platforms are readily accessible, maintained and performing optimally. The contractor shall use tools and infrastructure appropriate to support a virtual computing environment and rapid scalability for development and deployment of the EVAMOSC platform. (Deliverable: Data Architecture Approach).

5.3.2 System Administration. The contractor shall maintain responsibility as the system administrators of the environment. The contractor shall implement role-based access to the system, up to and including access control at the data field level (i.e., limiting user access data to fields within a particular EVAMOSC data table. Implement role-based access to data throughout the system for self-service analytics. Automate the build and operation of data platform capabilities to reduce the requirement of human intervention in operation. Maintain the platforms on Non-classified Internet Protocol Router (NIPR) to support O&S cost data analytics for unclassified use cases. The Contractor will ensure that EVAMOSC and its system administrators are compliant with DoDD 8140.01. Use encryption, access controls, and other compliant methods to verify that the data platform is fully adherent to DoD Risk Management Framework (RMF) Policies, as well as any additional policies required by the Government security community. Assist OSD-CAPE with preparation of RMF artifacts and documentation, as directed by the US Government EVAMOSC project lead (Deliverable: EVAMOSC Security Architecture).

5.4 EVAMOSC Data Acquisition and Preparation: This task, from the US government's perspective, is the most challenging aspect of the work required for EVAMOSC and represents the greatest value to OSD-CAPE and the DoD. This task focuses on acquiring and preparing data from DoD business systems in order to compile and present complete, accurate, and granular O&S cost profiles for major weapons systems. The objective is to develop and sustain data acquisition and business rule automation for O&S cost data reporting requirements and analytics. EVAMOSC data will include complete O&S cost data profiles, as defined by the OSD-CAPE 2014 Operating and Support Cost Estimating Guide, for all Major Defense Acquisition Programs and any Type-Model-Series (TMS) or Mission-Description-Series (MDS) derivatives of the original programs (e.g., M1A2, M1A2SEP, M1A2SEPV3, etc.). This includes working with DoD business systems owners from the Defense Agencies and Military Departments to determine what data is needed to complete an O&S cost data map for major DoD weapons systems. Once the data owners and data elements are determined to provide the desired O&S cost data output for each Military Department, this task includes the contractor's implementation of an automated ingest approach of data from each identified source system. This shall include the automation of business rules, quality checks, and the development and sustainment of memorandum of agreements and system interface agreements. As previously stated, EVAMOSC Increment 1 will focus on U.S. Army and Marine Corps weapons systems in the ground vehicle commodity group, and the contractor will be responsible for collecting and reporting cost data from Fiscal Years 2015 and beyond. To the maximum extent possible, the contractor will leverage congruencies between the data needs for the ground vehicle commodity group and other commodity groups to enable concurrent development. For example, if an O&S cost data map for Army rotary wing weapons systems is identical to the data map for ground vehicles, the contractor will include this commodity group in Increment 1.

5.4.1 Plan and Coordinate with EVAMOSC stakeholders and Subject Matter Experts from the Military Departments and Defense Agencies to obtain access to data. Based on direction from the U.S. government EVAMOSC project lead, identify source data systems, data elements, and possible reporting frequencies to support EVAMOSC's O&S data requirements. Coordinate with data system owners to finalize data requirements and formulate access agreements. Create a System Interface Agreement (SIA) for each source system to record the details of access and interface between the source system and EVAMOSC. Assess each system to track the progress of acquiring the data from the source system owner. The system coordination status shall be provided at least weekly. (Deliverables: Integrated Master Schedule (IMS), System Interface Agreement, Weekly System Data Update).

5.4.2 Perform data cleansing and wrangling to achieve assignment of O&S cost data to specific cost elements and major weapons systems. Tag and categorize data from multiple DoD business systems for the purpose of assigning operating and support costs to specific elements of the Government's required cost estimating structure (currently found in the 2014 OSD-CAPE O&S Cost Estimating Guide) and to specific weapons systems at the Type-Model-Series (TMS) or Mission-Description-Series (MDS) level. Document all business rules when standardizing data to support O&S data (cost and non-cost) aggregation or disaggregation to specific weapons systems. Ensure that all incoming data expressed in dollars are in "Then-Year" and have not been adjusted for inflation or escalation. In instances when the contractor is required to convert incoming data expressed in dollars to a "Then Year" version, explicitly document the source, version, and base year of the index used to perform the conversion. Work with functional SMEs to validate business rules, data models, and create data dictionaries for each source data system. The contractor will document the participants, process, and validation output used to allocate any cost to a particular weapons system (i.e., when assigning costs to a weapons system from an aggregate level that does not allow for direct attribution of a cost). The contractor will alert the Government project lead of any standardization issues identified when conducting data cleansing. (Deliverables: Data Dictionary, Business Rules, Data Models).

5.4.3 Demonstrate and implement a consistent approach for ingestion of new source data from multiple sources through automated data pipelines, currently scoped at 75 systems. Based on the source system agreements in task 5.4.1, develop automated data pipelines that will support the integration and loading of data sets, perform quality checks, transformation, meta-data tagging, and provide visual metrics and reports. Report, at least monthly, the health of the data pipelines. Provide logging and data lineage reports. Develop test reports and perform configuration management. Incorporate tools optimally suited for virtual computing environments and rapid scalability to automate this task to the maximum possible extent. (Deliverables: Automated Data Pipeline Plan, Data Lineage Reports, Data Pipeline Health Reports).

5.4.4 Provide analysis of data schema and structure, and functional validation of data ingested. Validate received and ingested data against defined business rules and data structures. Work with stakeholders to receive acceptance of business rules and data structures, with emphasis on any cost data outcomes requiring allocation versus direct attribution of costs to a weapons system. Document all business rules and data structures that will be used for validation, including stakeholder or participation in business rule development, where required. Design and implement a process for identifying and reporting data deficiencies, errors, and anomalies originating in EVAMOSC source data systems. Incorporate tools optimally suited for virtual computing environments and rapid scalability to automate this task to the maximum possible extent. (Deliverable: Data Validation Dashboard).

5.4.5 Develop a data catalog. Develop and sustain an automated way to visualize and search a data inventory, data catalog, and metadata repository. The data catalog shall detail all source systems that are available in the EVAMOSC platform with appropriate metadata. The data catalog shall be the primary interface from which to access all information related to tracking data within the EVAMOSC platform. The data catalog shall collect and display historical metrics from the data pipeline error logs and source data inventory. In addition to error logging, the data catalog shall provide tracking and reporting for data for the full data pipeline, meaning initial acquisition, quality assurance (QA) checking (possibly multiple instances until successful), normalization, and tabulation. This tracking procedure shall fuel many reports and other functionality, including a comprehensive report on all data within the data pipeline, system adherence to Memorandum of Agreements (MOAs), an inventory of all data incorporated into the system, and notifications sent to stakeholders. Incorporate tools optimally suited for virtual computing

environments and rapid scalability to automate this task to the maximum possible extent. (Deliverable: Data Catalog).

5.4.6 Provide support to data governance initiatives. As required by the EVAMOSC US Government Task Monitor, support data governance working group sessions with prepared briefs, data collection, and recommendations for policy change. Provide recommendations for cost element definition or business rule changes to support emerging reporting requirements or comparison of costs at an enterprise level. Provide feedback on the technical implications of changes to EVAMOSC data governance.

5.4.7 Account for security threats of data aggregation, as new data sources are identified and ingested into the EVAMOSC data platform. Identify and provide tools to safeguard the entire information base of the environment using a comprehensive security model. Verify that this security model includes all raw data, published data, meta-data and integration or interoperation points within the platform. Verify that users have valid roles and permissions ascribed and the system unequivocally enforces these roles and permissions. Upon ingest, verify the data is marked in such a way that the system can restrict access in accordance with the user roles and permissions model, to include general system access down to a single data field, or any combination thereof. Verify that the security model is implemented in a way to prevent insider threats to the repository contents, with the result being that the security application is not able to access the actual data or information within the application. Verify that the capability is able to ingest data from Unclassified, NIPR sources (Deliverables: Data Security Architecture, Data Security Implementation Plan).

5.5 Operating and Support Cost Self-Service Analytics and Dashboard Development: This task focuses on the development and sustainment of EVAMOSC's required self-service analytics capabilities. The contractor shall create an analytics roadmap for O&S cost data estimating and metrics reporting. The contractor will implement the capability to use those analytics in a self-service manner to improve visibility, accessibility, and opportunities to manage O&S cost outcomes for major weapons systems. The capability will allow authorized users to access large amounts of data at scale and to perform ad-hoc analysis, including the use of raw source and EVAMOSC-published O&S cost data.

5.5.1 Provide a user interface for query and visualization of EVAMOSC data. Using the infrastructure developed in task 5.3 and other tools ideally suited for application in a virtual computing environment, provide EVAMOSC users with the capability to query, analyze, manipulate, and visualize data within the EVAMOSC data platform, without affecting the underlying raw or EVAMOSC-published data. Provide EVAMOSC users with the capability to display and export EVAMOSC O&S cost data in selected Constant Year or Then Year dollars, based on a selected base year and index. At a minimum, EVAMOSC will allow users to apply escalation and inflation indices developed by the Service Financial Management Communities and will update these indices within the analytical toolkit on an annual basis. The tools available to perform analysis will also assist the EVAMOSC user in creating data extracts and recording the parameters selected to assemble the data used in analysis. The EVAMOSC toolkit will provide the capability to share visualizations created within EVAMOSC, both with users of the platform and with external customers. The contractor will specify and receive approval for its development approach to deliver these capabilities, prior to commencing development activities. (Deliverable: Development Release Plan)

5.5.2 Provide advanced analytics and process automation. Provide analytic capability and access to data, as prioritized by the US government EVAMOSC project lead. Design, develop, and implement data indices, data marts, application programming interfaces (APIs) and interfaces, to deliver data to authorized end users and systems. Using the infrastructure developed as part of task 5.3, implement custom and off-the shelf capabilities to enable a self-service analytics capability to include automated alerts, statistical analysis, and predictive modeling. Use role-based permissions to enable access to the tools hosted with the EVAMOSC platform's analytics toolkit. Recommend capabilities to include more advanced data science techniques to include process optimization, Robotic Process Automation, and Machine Learning, based on emerging user demands and use cases for EVAMOSC data. (Deliverable: Self Service Analytics Architecture)

5.5.3 Provide IT governance and integration support. Develop and implement release plans and configuration management of the analytics environment and toolkit. Verify that the environment is secured

and remediate any security vulnerabilities. Ensure the security of the environment is unaffected by the introduction of new features and updates, remediating any vulnerabilities identified during the update process. (Deliverable: Release and Configuration Management Plan, Security and Patching Plan)

5.5.4 Provide software and COTs deliverables. The contractor shall be responsible for developing software, implementing dashboards, implementing automated data pipelines, delivering COTS products, and other capabilities to provide end user analytics. (Deliverable: Software Deliverables)

5.6 System User Management and Training. This task focuses on the development and sustainment of processes and EVAMOSC platform features used to manage System user interactions with the platform.

5.6.1 User Management. The contractor shall maintain responsibility for all aspects of user management and access to the EVAMOSC data platform. Develop and implement a plan to authorize and enable new user access to the EVAMOSC data environment with the potential to accommodate up to 3500 EVAMOSC users. The user management plan will accommodate special considerations for authorizing user access from organizations across the Department of Defense, other Federal Agencies, and authorized DoD contractors. The user management plan will also address administration of non-disclosure agreements with DoD contractors, where necessary. To the maximum extent possible, the contractor will automate any account authorization processes via a web-enabled interface. Incorporate tools optimally suited for the virtual computing environment to support the user application, roles-based permission, and authentication processes, while maintaining the rapid scalability of the platform. (Deliverable: User Management Plan).

5.6.2 Respond to user issues. Develop and implement a Help Desk Plan. Implementation will require the contractor to assist users with account administration (i.e., issues with account instantiation), EVAMOSC system access issues (e.g., PKI/CAC issues), Self-Service Analytic Tool help, Special Data Services (e.g., assistance with non-standard data requests, performing ad hoc data queries, etc.) , and general data assistance (e.g., questions on business rules, data inputs, definitions, etc.). The Help Desk plan shall provide Self-Service style help menus in addition to actual chat, email, or phone interaction with users. (Deliverable: Help Desk Plan).

5.6.3 Provide non-routine training for the Defense Agencies and Military Departments in using the implemented EVAMOSC self-service analytics environment. Develop training plans and training materials. This will include but is not limited to online training and classroom training classes. The estimated number of training courses offered in person would be 12 per year with an estimated size of 25 people per class. (Deliverable: Training Plan and Training Materials).

5.7 Platform Sustainment: This task is to continuously innovate and research ways to improve and sustain the EVAMOSC data platform and its analytic capabilities.

5.7.1 Integrate new weapons systems. The contractor shall update business rules, data models, and validation processes as necessary to ensure O&S cost data is captured for new major weapons systems programs entering into sustainment, based on direction from the US Government EVAMOSC task monitor. The contractor shall provide an annual report on newly integrated weapons systems, to include any identified system-specific challenges or opportunities related to O&S cost data, for publication to the EVAMOSC user community (Deliverable: New Weapons System Report).

5.7.2 Integrate new DoD business systems. The contractor shall monitor implementation plans for new Military Department and Defense Agency business systems and make recommendations for resulting changes to EVAMOSC source systems and data pipelines, as directed by the EVAMOSC project lead. The contractor shall provide an annual report on new systems integrated into EVAMOSC in the past year and system integration planned for the following year for publication to the EVAMOSC user community. (Deliverable: New Source Data Integration Report).

5.7.3 Automation Research and Deployment: Research and recommend methods, process, and tools that would allow OSD-CAPE to further automate processes within EVAMOSC and, upon Government approval, implement them in production on a monthly basis (Deliverables: Process Automation Research, Automation Scripts).

5.7.4 General Platform Sustainment: Sustain and upgrade the EVAMOSC platform and analytics environment. This shall include researching and implementing upgrades and solutions with a focus on improving ease of use, scalability, and stability for help desks, user management, data automation, analytics, security, infrastructure, technology improvements, and upgrades (Deliverables Sustainment Improvement Plan and Implementation Upgrades).

PART 6
APPLICABLE PUBLICATIONS

6. APPLICABLE PUBLICATIONS:

6.1 The Contractor must abide by all statutes, applicable regulations, publications, manuals, and federal policies, procedures.

6.2 *Operating and Support Cost Estimating Guide*, Office of the Secretary of Defense, Cost Assessment and Program Evaluation, March 2014.

6.3 *Department of Defense Instruction 5000.73: Cost Analysis Guidance and Procedures*, 2 October 2017.

PART 7
ATTACHMENT/TECHNICAL EXHIBIT LISTING

7. ATTACHMENT/TECHNICAL EXHIBIT LIST:

7.1. Attachment 1/Technical Exhibit 1 – Performance Requirements Summary

7.2. Attachment 2/Technical Exhibit 2 – Deliverables Schedule

7.3 Attachment 3/Technical Exhibit 3 – Estimated Workload Data attached separately as the IGCE.

7.4 Attachment 4/Technical Exhibit 4 – Personnel Qualifications

TECHNICAL EXHIBIT 1

Performance Requirements Summary

The contractor service requirements are summarized into performance objectives that relate directly to mission essential items. The performance threshold briefly describes the minimum acceptable levels of service required for each requirement. These thresholds are critical to mission success.

Performance Objective (The Service required—usually a shall statement)	**Standard**	**Performance Threshold** (This is the maximum error rate. It could possibly be "Zero deviation from standard")	**Method of Surveillance**
PRS # 1. *Monthly Status Reports*	*MSR are timely, complete and accurate.*	*No more than 2 errors are identified per month. An error is defined as an incorrect statement or the omission of required information. A corrected MSR will be submitted within 5 business days of identification of an error.*	*100 Percent Inspection*
PRS # 2. *Program Management Plan*	*Completed on time and updated to reflect changes as they occur 100% of the time. Performance in accordance with (IAW) the PMP.*	*Completed on time and updated to reflect changes as they occur 98% of the time. A corrected PMP will be submitted within 5 business days of identification of an error. All reasonable efforts (in the Government's view) are taken by the contractor to adhere to the PMP.*	*100 Percent Inspection*
PRS # 3. *Project Schedule*	*Performance is on schedule.*	*Project is within 10% of schedule as defined in the Program Management Plan. Provide a get well plan and revised PMP within 5 business days if schedule is not within 10%.*	*100 Percent Inspection*
PRS # 4. *Project Budget*	*Performance is on budget.*	*Project is within 10% of the budget as defined in the Program Management Plan. Provide a get well plan and revised PMP within 5 business days if budget is overrun.*	*100 Percent Inspection*

PRS # 5. *Effective Resource Planning (Staffing)*	*Manage, retain, replace and assign capable/qualified contractor personnel in a manner that meets all expressed contractual requirements with no observable degradation of services or impacts to mission requirements.*	*98% compliance with PWS and CDRL requirements. The Government shall receive no more than three Corrective Action Reports (CARs) or similar deficiency reports prescribed by the Performance Plan during the contractor's performance of the entire task order. Provide a get-well plan within 5 business days of identification of deficiency.*	*100 Percent Inspection*
PRS # 6. *Quality Deliverables*	*Research, develop, prepare, compile, and submit Deliverables/CDRLs on time, addressing all data contents, fields, and specified instructions adequately. Upon submission to the Government, deliverables may require minimal non-substantive changes, such as corrections to spelling, etc., but shall not require substantive document corrections or revisions.*	*98% compliance with CDRL requirements. The contractor shall submit all Deliverables/CDRLs as instructed per the established schedule (due date) with no need for substantive changes. Provide a revised deliverable within 5 business days of identification of deficiency.*	*100 Percent Inspection*
PRS # 7. *Responsive Customer Service*	*Contractor shall respond to all tasks, questions, and inquiries by providing initial written acknowledgement to the requesting individual(s) within two business days. The contractor shall close all corrective action tasks within 30 calendar days, providing written documentation to the Government detailing actions taken. All Government questions and inquiries will be addressed within five business days. Contractor shall provide courteous and competent customer service during performance of the task order. Contractor will be flexible and responsive to the Government's evolving requirements or emergent activities.*	*The Government shall receive no more than three complaints or negative reviews denoting a customer service/business acumen deficiency during the contractor's performance of the entire task order. Provide a get well plan within 5 business days of identification of deficiency.*	*Random Sampling*

TECHNICAL EXHIBIT 2

DELIVERABLES SCHEDULE

Deliverable	Frequency	Description	Medium/Format	Submit To
Post Award Brief Slides and Minutes with Attendees List	*3 days after Post Award Orientation (PAO)*	*Slides, at a minimum, should identify the key stakeholders and highlight their roles and responsibilities, summarize the tasks and associated deliverables, and discuss the plan for monthly status reporting (cost, schedule, and performance). Minutes (with a list of attendees) should capture the substance of the meeting.*	*MS Word*	*Delivered to TM via email*
Program Management Plan (PMP)	*15 days after start of performance; updated within 15 days of each new project tasking*	*PMP shall include a schedule that outlines the steps to take and a timeline to completion of the program and all projects as well as any interdependencies amongst the projects' schedules. The schedule shall specify estimated project start and stop dates as well as a risk mitigation plan and expenditure plan aligned to key milestones within the project, to include any anticipated Other Direct Costs.*	*MS Office Product*	*Delivered to TM via email*
Monthly Status Report (MSR)	*45 days after start of performance, Monthly thereafter.*	*Includes actual versus planned task expenditures, technical progress made, schedule status, travel recommendations. The MSR reports cost, schedule, risks, and performance against PMP and PWS requirements. Identifies funding compared to ceiling, planned versus actual expenditures, status of known risks, risk mitigation efforts, deliverables funded and date they were funded, technical progress made and schedule status per deliverable, deliverable titles and numbers completed within the previous month, and the deliverables scheduled to be delivered during the upcoming month. Reports all funding and details the funding source or*	*MS Office Product*	*Delivered to TM via email*

Deliverable	Frequency	Description	Medium/Format	Submit To
		project specified. Specific MSR format and content shall be mutually agreed upon by the contractor and TM, per the guidance contained herein. Establishes a baseline schedule for and steps to completion for each requirement. Upon acceptance and approval by the Government, the Contractor shall meet the schedule and forecasted delivery date of all deliverables by taking all reasonable measures to fulfil the requirement. The MSR content should be established no later than the post-award conference.		
Quarterly Program/Project Management Review	*45 days after start of performance /Quarterly thereafter*	*Includes quarterly program/project management review as a formal presentation to the TM. As a minimum, provide formal updates to cost, schedule, performance, risk assessment, and risk mitigation plans for each program/project. Slides due 3 days prior to TM and COR. Minutes should be provided to all attendees.*	*MS Office Product*	*Delivered to TM via email*
Final Technical Report	*End of PoP*	*Shall include task background, objectives, assumptions, specific data collected, conclusions analyses conducted and recommendations. Each report shall be delivered to the TM and COR, prior to expiration of the PoP. Under authority of the TM, with approval by the COR, the FTR (whether unclassified or classified) shall have a Distribution Statement. Every effort will be made to avoid utilizing Distribution F (Further Distribution Only as Directed By Requiring Authority (RA)). However, if sensitive internal information is contained in the FTR, every attempt shall be made*	*MS Word*	*Delivered to TM via email*

Deliverable	Frequency	Description	Medium/Format	Submit To
		to produce a sanitized (redacted) version of the FTR for distribution within DoD (Distribution D) and inclusion in the Defense Technical Information Center (DTIC) database. For classified reports to be included in DTIC classified databases, an unclassified SF298 will be produced and signed by the Government TM; this document shall serve as the basis for creating unclassified metadata, which the BCO will add to the DTIC unclassified database, in accordance with established policy and procedures.		
Redacted Contract	*30 days after start of performance*	*To support transparency of Government contracting the contractor shall provide a redacted copy of awarded contract(s) appropriate for public release, which the Government intends to post to a public web site.*	*PDF*	*Delivered to TM via email*
Contractor Acquired Property Report	*Monthly*	*Provide copies of the DD Form 250 Material Inspection and Receiving report for all Contractor Acquired Property acquired via Other Direct Cost charging.*	*DD250*	*Delivered to TM via email*
Data Architecture Approach	*45 days after start of performance*	*The data architecture approach shall provide the technical approach to implement a data platform that can easily scale up to 100 terabytes of data and automate the ingestion of over 75 source systems. Once delivered, the contractor shall be responsible for updating the approach.*	*Microsoft Office Product*	*Delivered to TM via email*
EVAMOSC Security Architecture	*45 days after start of performance*	*The application security architecture shall provide the architecture to secure the environment from inside and outside threats. Once delivered, the contractor shall be responsible for updating the architecture.*	*Microsoft Office Product*	*Delivered to TM via email*

Deliverable	Frequency	Description	Medium/Format	Submit To
Integrated Master Schedule	*1st IMS is due 30 days after start of performance and then updated*	*The integrated master schedule will be created and updated by the vendor that demonstrates the integration of all tasks to develop and sustain the EVAMOSC objectives. The IMS will be resourced and show where tasks are on time, late, and at risk.*	*Microsoft Excel*	*Delivered to TM via email*
System Interface Agreement	*Due per Integrated Master Schedule (IMS)*	*System Interface Agreements (SIAs) will be created to establish roles and responsibilities, data requirements, and frequency of data exchanges for each source system. An estimated number of 75 systems have been identified as systems from which data is required, hence 75 such SIAs are estimated to be delivered during the PoP of this contract.*	*Microsoft Office Product*	*Delivered to TM via email*
Weekly System Data Update	*Weekly*	*System data updates shall be created weekly and provide the status of where each source system data exchange is in the process of automating the data pipelines.*	*Microsoft Office Product*	*Delivered to TM via email*
Data Dictionary	*Due per IMS*	*Data dictionaries shall provide the data element definition and data types for each source system and shall be available in a self-service dashboard.*	*TBD*	*Stored within EVAMOSC platform*
Business Rules	*Daily*	*Business rules shall be documented for each transformation and shall be available in a self-service dashboard.*	*TBD*	*Stored within EVAMOSC platform*
Data Models	*Monthly*	*Data models shall be created for each source system.*	*TBD*	*Stored within EVAMOSC platform*
Automated Data Pipeline Plan	*35 days after start of performance*	*The automated data pipeline plan shall describe the tools, processes, and schedule to be implemented for automating data exchanges. Once the plan is delivered, the contractor shall be responsible for updating the plan when required.*	*Microsoft Office Product*	*Delivered to TM via email*

Deliverable	Frequency	Description	Medium/Format	Submit To
Data Lineage Reports	*Weekly*	*The data lineage reports shall explain how data flows from the source system to the dashboard and shall be provided in a self-service dashboard.*	*TBD*	*Stored within EVAMOSC platform*
Data Pipeline Health Reports	*Monthly*	*The data pipeline health reports shall include a description of success and errors as part of the automated data pipeline. This shall be provided in self-service dashboards.*	*TBD*	*Stored within EVAMOSC platform*
Data Validation Dashboard	*Weekly*	*The data validation dashboard shall provide the status of source data and shall include the errors that need to be fixed. Data quality reports shall provide metrics associated with identified data deficiencies, errors, and anomalies, along with recommendations for corrective action.*	*TBD*	*Stored within EVAMOSC platform*
Data Catalog	*Monthly*	*The data catalog shall detail all source systems that are available in the EVAMOSC platform with appropriate metadata.*	*TBD*	*Stored within EVAMOSC platform*
Data Security Architecture	*35 days after start of performance*	*The data security architecture shall depict the architecture to secure data. Once delivered, the contractor shall be responsible for updating the data security architecture*	*TBD*	*Stored within EVAMOSC platform*
Data Security Implementation Plan	*40 days after start of performance*	*The data security implementation plan shall include the tasks to implement the data security architecture. Once delivered, the contractor shall be responsible for updated the plan*	*TBD*	*Stored within EVAMOSC platform*
Development Release Plan	*45 days after start of performance*	*The Agile development release plan shall include the release activities and deliverables for phase or step of development. Once delivered, the contractor shall be responsible for updating the plan*	*Microsoft Office Product*	*Delivered to TM via email*

Deliverable	Frequency	Description	Medium/Format	Submit To
Self Service Analytics Architecture	*40 days after start of performance*	*The self-service analytics architecture shall explain the means and tools needed to implement a self-service analytics architecture that can be used by a diverse user population. Once delivered, the contractor shall be responsible for updating the architecture*	*Microsoft Office Product*	*Delivered to TM via email*
Release and Configuration Management Plan	*35 days after start of performance*	*The release and configuration management plan shall include a description of how the contractor's plan to perform release and configuration management and shall include dates and activities planned for the first six months after start of performance. Once delivered, the contractor shall be responsible for updating the plan per IMS.*	*Microsoft Office Product*	*Delivered to TM via email*
Security and Patching Plan	*20 days after start of performance*	*The security and patching plan shall include a plan for identifying vulnerabilities and patching those vulnerabilities. Once delivered, the contractor shall be responsible for updating the plan per IMS.*	*Microsoft Office Product*	*Delivered to TM via email*
Software Deliverables	*Monthly*	*The vendor shall provide monthly software updates. These software updates will be owned by Government.*	*TBD*	*Stored within EVAMOSC platform.*
User Management Plan	*35 days after start of performance*	*The user management plan shall include the plan for adding new users as well as a description of the tools that shall be utilized to manage the process. Once delivered, the contractor shall be responsible for updating the plan when required per IMS.*	*Microsoft Office Product*	*Delivered to TM via email*
Help Desk Plan	*180 days after start of performance*	*The help desk plan shall include a description of the plan to resolve user issues as well as a description of the tools that shall be utilized to manage the process. Once delivered, the contractor shall be responsible for updating the plan per IMS.*	*Microsoft Office Product*	*Delivered to TM via email*

Deliverable	Frequency	Description	Medium/Format	Submit To
Training Plan and Training Materials	*180 days after start of performance /Due per IMS*	*The training plan shall include a description of the type of training the contractor plans to deliver and shall include training materials created for end users. Once delivered, the contractor shall be responsible for updating training plan and materials*	*Microsoft Office Product*	*Delivered to TM via email*
New Weapons System Report	*Annual*	*The report will provide the EVAMOSC user community with an update on weapons systems for which O&S cost data is newly available within EVAMOSC. This report will identify any system-specific challenges or opportunities identified during the process of deploying the data.*	*Microsoft Word*	*Delivered to TM via email*
New DoD Source Data Integration Report	*Quarterly*	*The integration report will identify new DoD source data systems integrated into the EVAMOSC O&S cost data map and indicate the resulting cost elements affected, by commodity group.*	*Microsoft Word*	*Delivered to TM via email*
Process Automation Research Plan	*Annual*	*The automation plan shall include ways to automate processes.*	*Microsoft Office Product*	*Delivered to TM via email*
Automation Scripts	*Monthly*	*The automated scripts shall be delivered to the Government and implemented.*	*TBD*	*Stored within EVAMOSC platform*
Sustainment Improvement Plan and Implementation Upgrades	*Update per IMS*	*The sustainment improvement plan shall capture all required upgrades that will lead to improvement in the areas of ease of use, scalability, and stability. The deliverable shall also include all technical artifacts that were upgraded and improved.*	*Various*	*Delivered to TM via email; Record stored within EVAMOSC platform*

TECHNICAL EXHIBIT 3

ESTIMATED WORKLOAD DATA

The following workload information was used to prepare the Independent Government Cost Estimate (IGCE) for the base period of the contract, plus two option years. The hours listed are inclusive of the entire contract period of performance (Base plus two options periods.

Item	Name	Estimated Quantity	
1	*Product Manager*	*10400*	*Hours*
2	*Security Administrator*	*10400*	*Hours*
3	*Senior Cost Analyst (SME)*	*10400*	*Hours*
4	*Business Analyst*	*20800*	*Hours*
5	*Administrative Assistant*	*10400*	*Hours*
6	*Backend Developer*	*28080*	*Hours*
7	*Frontend Developer*	*9360*	*Hours*
8	*Solutions Architect*	*18720*	*Hours*
9	*Test Engineers*	*18720*	*Hours*
10	*Development Engineers*	*18720*	*Hours*

TECHNICAL EXHIBIT 4

PERSONNEL QUALIFICATIONS

A4.1 Certification: The contractor shall possess the necessary training, qualifications, experience, and clearances to accomplish all tasks identified in this PWS. Minimal tradeoffs between education, experience, or skills may be accepted on a case by case basis.

Personnel are required to have the following:

- Experience with development and deployment of data platforms and data analytics in a cloud computing environment
- Experience working with EVAMOSC stakeholder communities: OSD-CAPE, Cost, Financial Management, Acquisition, Logistics, Maintenance, and Product Support.
- Experience with US Army and Marine Corps financial and logistic processes (Increment 1 specific)
- Experience with DoD business, financial management, and logistics, and maintenance Enterprise Resource Planning (ERP) systems

Overall, the Government estimates that, at a minimum, 15 personnel will be required, including at least one program manager, two Solutions Architects, one Security Administrator, four Developers, two test engineers, two Development Operations Engineers, and three Functional SMEs. Requirements for specific key personnel are stated below. The Government reserves the right to review resumes for candidates in all listed key personnel billets to ensure the individuals are qualified to perform the tasks associated with the billet.

A4.2 Program Manager III:

Required

The contractor's Program Manager is required to have a SECRET clearance. The designated Program Manager shall have a minimum of 10 years of experience relating to DoD major systems or programs. Familiarity with the OSD-CAPE 2014 Operating and Support Cost Estimating Guide and Risk Management Framework (RMF) is required. The designated Program Manager shall have, at minimum, a Master of Science from an accredited institution in either systems engineering, computer science, or information technology.

Preferred

It is preferred that the contractor's Program Manager have at least 2 years of experience with DoD cost data analytics and weapons system cost estimating procedures, Project Management Profession (PMP) certification, and experience with operating in NIPR environments.

A4.3 Systems Engineers and System Architects II:

Required

The contractor's System Engineers and System Architects are required to have a minimum SECRET clearance. System Engineers and System Architects shall have at least a B.S. degree from an accredited institution in either information technology, computer science, or computer engineering. The designated System Engineers and System Architects shall have Security + and Linux Certifications. The System Engineers and System Architects shall have experience working with DoD business and financial management source data systems.

Preferred

It is preferred that the contractor's System Engineers and System Architects have experience with DoD Enterprise Resource Planning systems and experience with operating in NIPR environments.

A4.4 Security Administrators II (Systems Administrators II):

Required

The contractor's Systems Administrators are required to have a minimum SECRET clearance. Systems Administrators shall have Security + and Linux certifications, and experience with system administration in a cloud virtual computing environment. System Administrators shall have experience working with DoD business, financial management, and Enterprise Resource Planning source data systems.

Preferred

It is preferred that the contractor's Systems Administrator have experience with O&S cost data applications within DoD; experience with operating in cloud-based NIPR production environments.

A4.5 Senior Cost Analyst:

Required

The contractor's senior cost analyst is required to have a minimum SECRET clearance. Senior cost analysts will have at least a M.S. degree from an accredited institution in either Operations Research, Applied Mathematics, or Industrial Engineering, or a related Field. The Senior Cost Analyst will have a minimum of 5 years' experience in DoD business cost analysis and cost policy. The designated Senior Cost Analyst will have experience in operations research, cost estimating methodologies, and cost analysis techniques.

Preferred

It is preferred that the contractor's Senior Cost Analyst has worked in weapons system cost estimation and has experience in preparing estimates for the O&S portion of the weapon system lifecycle.

A4.6 Functional Expert Consultants and Subject Matter Experts II:

Required

The contractor's Functional Expert Consultants and Subject Matter Experts are required to have a minimum SECRET clearance.

Preferred

It is preferred that the contractor's Functional Expert Consultants and Subject Matter Experts have experience with weapons system cost data and experience with operating in NIPR environments.