Call for Solutions (CFS) 001
Ammunition, Logistics, Finance, and Personnel Modernization

Call Reference Number:	LOGFIN26-CFS-001
Army Open Solicitation (AOS) Number:	W9128Z-25-S-A002
Call for Solution (CFS) Title:	Ammunition, Logistics, Finance, and Personnel Modernization
Requiring Activity:	Program Manager Logistics-Finance (PM LOG-FIN)
Issued By:	U.S. Army Contracting Command – Rock Island (ACC-RI) on behalf of PM LOG-FIN, utilizing the ACC-Aberdeen Proving Ground (APG) AOS.
Submission Instructions:	To respond to this CFS, please refer to Section 6 below.
*** Solution Brief Due:**	**30 June 2026 from SAM.gov Posting Date at 12:00 PM Central Standard Time.** (Note: Any submissions received by the Contract/Agreement Officer after the suspense date/time listed above will be deemed late and not evaluated. It is the sole responsibility of the Company to ensure that its submission is received in the inbox listed above before the deadline specified.)
Points of Contact (POCs):	Contracting Officer: Shelly Hitt shelly.a.hitt.civ@army.mil Contract Specialist: Jessica Rooks jessica.b.rooks.civ@army.mil
Submission Mailbox:	usarmy.ria.acc.mbx.pmlogfin-cso@army.mil
Amendment 01	**Amendment 01 – 18 June 2026** The purpose of Amendment 01 to CFS 001 is to update the technical constraints language to allow for the proposal of alternative (non-approved) platforms that offer transformative mission capabilities and submission requirements. All revised or added language is displayed in this color blue font. Companies are responsible for reviewing all updated content.

1. CALL OBJECTIVE & Problem Statement

The U.S. Army is issuing this CFS under Commercial Solutions Opening (CSO) procedures (in accordance with 10 U.S.C. § 3458 / Defense Federal Acquisition Regulation Supplement (DFARS) 212.70). The objective of this call is to solicit concise Solution Briefs for innovative commercial technologies, specifically Low-Code/No Code (LCNC) and software modernization solutions. These technologies will support a transformative modernization of the Army's five SAP-based Defense Business Systems, a critical effort designed to directly improve operational efficiency, enhance data visibility, and reduce overall sustainment costs across the Army's business mission areas.

To achieve these modernization goals, proposed solutions must perform both non-transactional and transactional functions. Non-transactional functions include capabilities such as data analytics and executive dashboards, while transactional functions include both financial and non-financial transactions that integrate seamlessly with current Enterprise Resource Planning (ERP) systems.

While the Army accepts solutions built on the platforms listed in Appendix C, we are open to considering alternative platforms if they offer a truly transformative capability with a compelling business case and a realistic plan for its approval. The solution must have the ability to securely operate at the Army's designated Impact Level (IL) 4/5/ or 6 as appropriate with degraded/disconnected operations capability for forward-deployed units.

2. OBJECTIVE STATEMENTS (Area of Interest (AOI))

The Government requires modernization across the following four domains. Vendors must explicitly identify which AOI(s) their proposed commercial solution/s address.

Area of Interest	Objective Statement
Ammunition	A comprehensive enterprise ammunition management system is required to provide a single, authoritative view of ammunition assets and processes. End-to-end total asset visibility must be delivered across the entire munition's lifecycle from planning, production, and procurement, to storage, surveillance, distribution, expenditure, and final disposition. Key capabilities must include integration of data from disparate legacy systems, enablement of robust planning and forecasting, and support for tactical users in disconnected or low-bandwidth environments. Ultimately, improved logistical supportability, audit readiness, and data-driven decision-making for all echelons are intended to be achieved.

Logistics	The objective is to modernize Army logistics systems and end-to-end supply chain management, filling critical operational gaps while maintaining seamless integration with financial accountability through industry-best technical strategies and modern methodologies. The goal is to achieve comprehensive lifecycle visibility of all physical assets, maximize the efficiency of the Army's working capital, deliver fully auditable processes, and deploy seamlessly integrated tactical applications. This modernization will ensure real-time tracking, robust supply chain resilience, and continuous combat readiness from the strategic support area down to the tactical edge.
Finance	The Army requires a modern, integrated, and auditable financial management solution that creates visibility across multiple domains and enabling real-time financial visibility. This capability must deliver the full spectrum capability of budget execution, standard chart of accounts visibility, program, budget and execution workflows, automated financial close and accruals, robust funds control, and end-to-end process integration, while ensuring compliance with federal and DoD mandates. The Army seeks a commercial solution that minimizes custom development, accelerates delivery, reduces total cost of ownership, and provides advanced analytics, including predictive analytics—to empower timely, accurate, and actionable financial decision support at all echelons.
Personnel	Objective is to modernize the Army's human resources operations by establishing a secure, authoritative data environment that seamlessly integrates with the broader enterprise business system. By adopting commercial best practices, this modernized framework will optimize the administration of civilian time and attendance alongside civilian payroll, ensuring efficient and accurate financial resourcing of the Army’s civilian workforce. The goal is to eliminate fragmented legacy payroll processes, resolve payment delays and inaccuracies, and empower commanders with real-time, data-driven visibility into workforce labor cost and readiness from strategic planning down to operations.

3. CRITICAL AUDITABILITY & COMPLIANCE REQUIREMENTS:

Any LCNC and modernization solutions that perform financial transactions, or that feeds data supporting financial postings, shall be auditable in accordance with DoD 7000.14-R Financial Management Regulation Volume 1, Chapter 3: “Federal Financial Management Improvement Act Compliance Requirements”, Volume 6.A, Chapter 3: “Reporting Of Outlays, Receipts, and Adjusted Trial Balances” and other current applicable regulations. In addition, all solutions must provide capabilities to support transaction traceability, system-

generated audit logs, and evidence of Internal Control Over Financial Reporting/Information Technology General Controls. All solutions shall be designed to enforce transactional level Segregation of Duties (SOD) both within the solution delivered and across integrated systems, consistent with existing Army enterprise SOD controls and open Notices of Findings and Recommendations. Solutions shall ensure governance, cybersecurity, and interoperability with Army enterprise services and data platforms. The Army is committed to fostering innovation and collaboration with industry, including non-traditional contractors, to develop solutions that align with these modernization goals.

4. AWARDING INSTRUMENT

In accordance with Open Solicitation Procedures detailed within W9128Z-25-S-A002, the Government reservices the right to award a FAR Part 12, Firm-Fixed-Price (FFP) type contract(s) or award an Other Transaction(s) (OT) pursuant to 10 U.S.C. § 4022. This Call for Solution will utilize Commercial Solutions Opening (CSO) procedures. Use of a CSO in accordance with DFARS subpart 212.70 is considered to be a competitive procedure for the purposes of 10 U.S.C. chapter 221 and FAR subpart 6.102.

5. GENERAL SUBMISSION NOTES

In addition to the general guidelines included in the open solicitation, the following guidelines apply to this CFS:

- Companies are responsible for monitoring SAM.gov for any amendments to this solicitation that may have updated information.
- Resellers and academic research proposals are not desired.
- All Solution Briefs will be valid for 180 calendar days after the submission date.
- The Government may down-select potential awardees under this CFS.
- The Government reserves the right to issue one or multiple awards from this CFS. It similarly reserves the right to refrain from making any award.
- Companies that currently hold an Enterprise Agreement (EA)/Enterprise Contract (EC) with the Army or DoW are required to identify and propose IAW those existing agreements.
- Companies must have a Unique Entity ID (UEI) and must register in the System for Award Management (SAM) and ensure the registration is active prior to receiving any award. Companies are advised to commence SAM registration upon receipt of a Request for Proposal. Companies must also register in the prescribed government invoicing system (e.g., Wide Area Work Flow). The Company must be determined to be responsible by the Agreements/Contracting Officer and must not be suspended or debarred from award.
- Submittals must use a standard, readable font (i.e., not requiring magnification), as the document's readability directly impacts the Government's ability to assess the merits of the proposed solution. Companies are strongly encouraged to use diagrams, graphics, and concise text to effectively convey complex information. For this purpose, landscape-oriented (11 x 8.5 inch) pages are permissible for visuals but will be counted toward the total page limit, which is strictly enforced. Any pages submitted beyond the maximum allowed will be removed by the Government and will

not be evaluated.

The Government may use internal Artificial Intelligence (AI) tools to assist in the administrative review and analysis of proposals, such as by summarizing content or verifying compliance with solicitation requirements. However, the use of AI is strictly for support purposes; all decisions are inherently governmental functions that will be made exclusively by Government personnel. The Government is committed to protecting all Company proprietary information, and any AI tool used will operate in a secure environment, consistent with all applicable data protection regulations, and will not transmit data to external systems.

6. SOLUTION SUBMISSION AND EVALUATION PROCESS

The Army encourages concise, focused submissions that clearly address the relevant AOI(s). Submissions should be structured to facilitate efficient evaluation and should avoid unnecessary elaboration. Diagrams and figures are encouraged to illustrate proposed solutions. Companies may submit Solution briefs for a single AOI or up to all four AOIs. All submissions must be unclassified and comply with Army security and export control requirements. Submissions must be electronic and follow instructions in this CFS.

The Government will use up to three (3) phases for assessing solutions:

Phase 1 – Solution Brief: Companies shall submit a written Solution Brief addressing the Objective Statement in paragraph 2. The brief is a written technical submission that must provide a detailed discussion explicitly addressing the technical merit of the commercial solution offering with respect to the problem statement defined herein, using the content guidelines in Section 6.1. Furthermore, the submission must clearly articulate how the proposed solution meets the Government's objectives and satisfies the evaluation criteria detailed in Section 6.2. All Solution Briefs will be evaluated against these criteria. Companies are advised that the Government will not reimburse any costs incurred in the preparation or submission of a Solution Brief.

Phase 2 – Pitch Session (Unless Bypassed): Companies whose Phase 1 Solution Briefs that demonstrate technical merit, satisfy the minimum evaluation criteria, and are selected to proceed may be invited to participate in a Phase 2 Pitch Session. The Government reserves the right to limit the number of companies invited to pitch. As such, a Company's solution may be evaluated to be of merit, however not invited to pitch. If conducted, the Pitch Session may include a technical demonstration or challenge, and specific instructions will be provided to selected participants. The Government reserves the right to record all pitch sessions for evaluation purposes. Furthermore, the Government reserves the right, at its sole discretion, to bypass Phase 2 entirely and proceed to an award decision based on the Phase 1 submission. Unless otherwise stipulated, the Government will not reimburse companies for any costs associated with preparing for or participating in the Pitch Session.

Phase 3 – Solution Proposal: Following the completion of the preceding evaluation phase(s), the Government may issue an invitation to select companies to submit a full Request for Solution Proposal (RSP). The invitation for Phase 3 will provide detailed instructions on the required format and content for the solution proposal submission.

Unless otherwise stipulated, the Government will not reimburse companies for any costs associated with preparing the Solution Proposal or engaging in any subsequent negotiations. Furthermore, companies are advised that any potential award resulting from this solicitation is contingent upon the availability of Government funds and need.

6.1 PHASE 1 – SOLUTION BRIEF

6.1.1 SOLUTION BRIEF CONTENT

Companies responding to this Call shall submit a Solution Brief for evaluation. Submissions are to be sent via email only to the Submission Mailbox.

Solution Briefs shall follow the below-referenced page limits and use 12-point Arial font. Any pages exceeding the limit will be removed and not evaluated. The Government will not consider inserted textboxes/pop-ups or internet links to additional information as part of the Solution Brief and will not consider such information in its evaluation of submissions. Solution Briefs are intended to be clear, concise and succinct submissions.

Companies may submit a Solution Brief for a single AOI or up to four Solution Briefs, (one Solution Brief for each of the four AOIs).

To streamline evaluation, companies must submit their Solution Brief packages with files separated by the objective statement/Area of Interest outline in paragraph 2. Do NOT combine your entire submission into one single PDF if you choose to submit against more than one objective statement.

Solution Briefs shall include the following at a minimum:

A. Email Submission Rules

Submit all AOI responses via a single email to the Submission Mailbox. The email subject line must strictly follow this exact format:

LOGFIN26-CFS-001 Submission - [Company Name] - Bidding on: [List AOIs]

B. File Structure & Page Limits

Companies must attach the following separate PDF files to their submission email. All documents must use a standard 12-point font. The Government may be unable to evaluate the Solution Brief if a Company fails to submit the required contents for Phase 1.

File	Required File Naming Convention	Contents & Page Limits
File 1: Administrative	CompanyName_Admin.pdf	• Title Page (Max 1 Page): • Company Name, Call Title, Date, POC details, Address,

		Commercial and Government Entity (CAGE), UEI, and target AOI(s). • Executive Summary (Max 1 Page): Summary of the Company and corporate commercial experience. • Business Certifications (Max 2 Pages): Affirmation of Business Status (Attachment A). • IP Statement & Organizational Conflict of Interest (OCI) (No Page Limits): Identify Property (IP) restrictions and Organizational Conflicts of Interest mitigation.

File 2: Solution Brief	CompanyName_Solution_[AOI].pdf	Solution Brief (Max 4 Pages per each AOI submission): Explain the unique technical aspects of your solution, relevance to the targeted AOI, scalability, and technical approach. Address how the solution meets Army hosting/security requirements (e.g., cArmy 2.0 integration, open APIs, containerization, standard data schemas, ATO status) and note the DoD Technical Readiness Level (TRL*). (Example: If bidding on 3 AOIs, you must attach 3 separate Solution Brief PDFs, each being a maximum of 4 pages).*

File 3: ROM & Schedule	CompanyName_Pricing_Schedule_[AOI].pdf	• ROM (No Page Limit): Must contain the breakout of pricing *per AOI submission*. Tie pricing to milestones, where appropriate. Annotate assumptions used to develop the ROM. • Notional Schedule (No Page Limit): Must contain a project schedule outlining major tasks, milestones, and/or timeline for delivering the proposed solution. Annotate assumptions used to develop the schedule.

Administrative Notes:

- Affirmation of Business Status Certification: Companies shall include a separate Affirmation of Business Status Certification form (Appendix A) for each company/vendor participating in the proposed solution Call submission.
- The Solution Brief must identify any IP associated with the proposed solution, and the associated restrictions on the Government's use of that IP. DFARS subpart 252.227-7017(d) may be used for formatting. As needed, include a separate disclosure for each company that would be a participant of the solution/concept.
- Non-Government Advisor Non-Disclosure Agreements (NDAs) (Only as applicable and no page limit). (See Section 7). It is the sole responsibility of industry to independently execute NDAs with disclosed Non-Government Advisor.
- OCI Analysis and Mitigation Plan (Section 8).

SOLUTION BRIEF BASIS FOR EVALUATION

The Government intends to evaluate the Solution Briefs to determine if they have technical merit and address the Government's problem statement and required attributes. Solution Briefs submitted In Accordance With (IAW) with this CFS will be evaluated against the criteria in this Section. The Government reserves the right to use external market research in the evaluation of a Company. The Government reserves the right to select all, some, one or none of the Solution Briefs submitted IAW this Call to proceed to subsequent phases.

Evaluation criteria:

a. Technical Merit: The Government will evaluate the Technical Merit of a Company's Solution Brief. Technical Merit is defined as the solution's direct relevance to the CFS its ability to address the objective statement and required solution attributes, and/or its potential to provide innovative technological advancements. As part of Technical Merit, the evaluation will consider the scalability of the solution, its benefits in relation to the problem

statement and required attributes of this Call, and whether the technical approach is both feasible and achievable. Additionally, the Government will assess whether the proposed solution constitutes a compelling and innovative response to the CFS.

If the Offeror's solution is evaluated as not having Technical Merit, the Government reserves the right to not continue the evaluation for the remaining Evaluation Criteria, assigning an overall Solution Brief rating of 'Not Selected for Further Consideration'.

b. Schedule: The Government will evaluate the Offeror's proposed solution schedule, major tasks, milestones, timeline, and/or maturity path for feasibility and achievability.

c. ROM: The Government will evaluate the ROM for compliance with the Call's instructions only. Cost and/or Price evaluation, and Fair and Reasonable Price determination, will not be performed on the ROM for Phase 1 evaluation.

d. IP (Data Rights): The submitted IP and Data Rights assertions will be evaluated for compliance with this Call's instructions.

6.1.2 SOLUTION BRIEF SELECTION PROCESS

Based on the evaluation, the Solution Brief will be categorized as 'Selected for Further Consideration' or 'Not Selected for Further Consideration'. Selection into the next Phase will be based on the criteria listed above, Government Need, and funding availability. Selected for Further Consideration: The submitted Solution Brief has been determined to be of technical merit, represents a feasible and achievable schedule, and included all required submittals in accordance with the Call. As such, the Government intends to invite the Company to participate in next phase should funding be available. Not Selected for Further Consideration: The submitted Solution Brief does not represent the necessary degree of technical merit, does not represent a feasible and achievable schedule, and/or did not include all required submittals in accordance with the Call. Companies 'Selected for Further Consideration' may be invited to participate in subsequent phases, subject to the availability of funds.

The Government reserves the right to limit the number of companies invited to Phase 2 – Pitch Session (unless bypassed) and/or Phase 3 – Solution Proposal. As such, a Company's solution may be evaluated as 'Selected for Further Consideration', however, not invited to Phase 2 and/or Phase 3. Solution Briefs, whether selected or not selected for subsequent Phases, will be notified in writing as soon as practicable of their evaluation results.

6.2 PHASE 2 – PITCH SESSION

All Solution Briefs submitted IAW this Call will undergo a fair, impartial, and consistent evaluation in accordance with the stated criteria. The Government anticipates disparate innovative solutions in response to this Call, to include Solutions or Concepts that the Government had not previously explored. To allow flexibility in accommodating the best

method for evaluating all solutions in Phase 2, the content of Sections 6.2.1 through 6.2.3 will be provided in an invitation letter to those Companies selected to proceed to Phase 2 (unless bypassed).

6.2.1 PITCH SESSION CONTENT
See above Section.

6.2.2 PITCH SESSION BASIS OF EVALUATION
See above Section.

6.2.3 PITCH SESSION SELECTION PROCESS
See above Section.

6.3 PHASE 3 – SOLUTION PROPOSAL
The content of Sections 6.3.1 through 6.3.3 will be provided in an invitation letter to those Companies selected to proceed to Phase 3.

6.3.1 SOLUTION PROPOSAL CONTENT
See above Section.

6.3.2 SOLUTION PROPOSAL BASIS OF EVALUATION
See above Section.

6.3.3 SOLUTION PROPOSAL SELECTION PROCESS
See above Section.

7. NON-GOVERNMENT ADVISORS

As stated in Section I2 of the AOS, non-Government advisors may be used in the evaluation of Solution Briefs, Pitch Sessions, and Solution Proposals, and negotiation of said Proposals. For this Call, the Government anticipates using non-Government advisor(s). All Non-Government advisors will have signed NDAs with the Government. By submitting a Solution, the Company understands that the Government may share proprietary Company information with the identified non-Government advisor(s) for evaluation and administrative purposes only. In addition, the Company further understands that it has an opportunity before submitting a Solution Brief to the Government to enter an NDA directly with the Non-Government advisor(s) and therefore waives all claims against the Government for any disclosures of proprietary information by the non-Government personnel. All Companies that require a corporate specific Non-Disclosure Agreement (NDA) directly with the Non-Government advisor(s), must send their NDA Form to the Government Contract Points of Contact, who will ensure it is transmitted to the Non-Govt Advisors. Such NDAs are the responsibility of the Company, and the Government shall not be a party to them. Companies shall provide a copy of the signed NDAs to the Government with submissions.

8. ORGANIZATIONAL CONFLICT OF INTEREST (OCI)

The Company shall perform an OCI analysis and submit the results of that analysis in addition to the Solution Brief submission. Specifically, the Company shall analyze the details of the Call and the implementation of their proposed Solution for actual or potential OCI situations associated with the performance of the Company, or any of the Company's proposed teammates or subcontractors, under any contract or agreement the Company or the Company's teammates or subcontractors have been or may be awarded by any federal agency or other entity. The Company shall describe in detail the methodology used to identify actual or potential OCI issues. The level of detail for OCI analysis may not be the same for all vendors. Federal Acquisition Regulation (FAR) 9.5 may be used as guidance for OCI analysis. If no conflicts are identified, a risk mitigation plan is not required; however, description of the analysis methodology, and an affirming statement that no conflicts are identified shall be included. If the Company identifies any actual or potential OCIs with respect to the performance of the Company or the Company's subcontractors or teammates, the contractor shall provide an OCI Mitigation Plan to be incorporated as an attachment to any resulting contract or 2 Attachment titled "Army Open Solicitation_3 December 2025.pdf" on the main AOS SAM.gov posting. Any proposed avoidance or mitigation techniques shall be consistent with FAR 9.5 and the most recent decisions of the Government Accountability Office and the U.S. Court of Federal Claims.

SECTION 9 – APPENDICES

Appendix A: Current Army ERP Systems Description and scope of the five Army SAP ERP systems and one non-ERP system* (Not built on SAP).

1. **General Fund Enterprise Business System (GFEBS):** provides the Army's core financial management system for administering its General Fund

2. **General Fund Enterprise Business System - Sensitive Activities (GFEBS-SA)**: provides the sensitive activities component of GFEBS

3. **Global Combat Support System – Army (GCSS-A):** supports logistical, financial and tactical management of Army assets

4. **Logistics Modernization Program (LMP):** facilitates national supply chain management of parts and equipment and serves as the General Ledger for the Army Working Capital Fund

5. **Army Enterprise Systems Integration Program (AESIP) Hub**: supports integration of components of Army business processes master data management

*6. **Standard Army Ammunition System – Modernization (SAAS-MOD)**: provides multi-level (Theater Sustainment Command Distribution Management Center (TSC DMC), Expeditionary Sustainment Command Distribution Management Centers (ESC DMC), Ammunition Supply Activities at the Sustainment Brigade and lower tactical levels) automated ammunition management, reporting, and accountability.

Appendix B: References Army policies, strategies, technical guidance, and other reference documents relevant to LCNC and modernization application development, cybersecurity, data architecture, and approved products.

1. AR 25-2 Army Cybersecurity – 04 April 2019
2. Army Modernization Strategy – 2021
3. Army Digital Transformation Strategy -2021
4. Army Data Platform Guidance – 05 March 2026
5. Army Unified Data Reference Architecture - 22 March 2024
6. Army Enterprise Data Product Definition - 18 July 2024
7. Risk Management Framework Modernization – 02 March 2025
8. Army Data Stewardship Roles and Responsibilities - 28 April 2025
9. Policy for Interim Army Approved Products List – 04 June 2025
10. Army Low-Code/No-Code Development Guidance - 31 July 2025
11. Army Data Modernization and Centralization to Vantage - 26 September 2025
12. CIO DBS 1-N PORTFOLIO DIVESTURE – 06 November 2025

Appendix C: Approved Products List (APL) List of Army CIO-approved data platforms and development platforms for use in LCNC and modernization application development.

DOW Approved Data Platforms (DADP) (HQDA CIO & AAE memorandum (Army Data Platform Guidance, 5 March 2026)	
1. ADVANA (DOW)	4. Gabriel Nimbus (ARCYBER)
2. Army Vantage (CDAO)	5.Army Intelligence Data Platform (AIDP (DCS G-2)
3. Army Intelligence Data Platform (AIDP)	6. Army Person-Event Data Environment (PDS) (ASA (Manpower & Reserve Affairs
4. Army Resource Cloud (DCS< G-8)	7. Army Enterprise Portal Data Management (ePDM) (DEVCOM HQ/PM ePDM)

CIO Approved Development Platforms * Sustained by the Army Software & Innovation Center (ASIC)		
1. Army Vantage *	4. ServiceNow *	7. SAP
2. PowerApps *	5. Appian Defense Cloud	
3. Salesforce *	6. Palantir	

Attachment A is a form for Business Certifications

The Army wants to remain open to using a Fixed Price FAR Contract or an OTA. In BOTH Cases, Page 1 is required. Page 2 is only required IF: The Company recommends an OTA or IF: The Army decides that is the Award Instrument.

Army Open Solicitation (AOS) Active Capability Gap (ACG)Procedures

Submission of Active Capability Gaps (ACGs) Outside This Call

This call for solutions will close on the date and time specified; however, the Army Open Solicitation (AOS) remains open and continuous under AOS W9128Z-25-S-A002, Section D.1. Under the AOS Active Capability Gap (ACG) procedures, industry partners may submit a white paper at any time addressing a capability gap they have independently identified. A dedicated mailbox has been established for ACG submissions associated with this call. Vendors who wish to submit an ACG after the close of this call may send their submission to:

usarmy.ria.acc.mbx.pmlogin-cso@army.mil

Submitted ACGs should be related specifically to the PM LOG-FIN portfolio.

The Government reserves the right to make additional awards and/or issue new calls in the capability areas listed, consistent with the continuous nature of the AOS.

For more information see:
https://sam.gov/workspace/contract/opp/3e995a2b7da949e58fbb0ef4955b46fa/view