

Request for Solutions:

Experimental Validation Capabilities Prototype Project (EVCAPP)

XX October 2020

1. Purpose and Authority

This Request for Solutions (RFS) is seeking vendors for an Other Transaction Authority (OTA) agreement, for the Experimental Validation Capabilities Prototype Project (EVCAPP), in accordance with the authority of 10 USC §2371b. This project seeks to improve Redstone Test Center (RTC)'s test and assessment methodologies and capabilities by demonstrating more agile, adaptable, and resilient test and assessment technologies, methodologies, processes, and capabilities that reduce test and reporting timelines and increase the availability of decision quality information and data to the Army decision makers. The Government will evaluate the solutions with the intent to competitively award one or multiple Other Transaction (OT) Agreements for prototype projects through the Training and Readiness Accelerator (TReX) Consortium.

2. Summary and Background

This OTA is being sought on behalf of the US Army Redstone Test Center. The mission of the Army's RTC, a subordinate organization to the United States Army Test and Evaluation Command (ATEC), is to conduct developmental testing, independent evaluations, assessments, and experiments of US Army aviation, missiles, and sensor equipment. This includes, but is not limited to, aircraft/ground vehicle survivability systems; aircraft/aircraft subsystems/aviation mission equipment; unmanned aircraft systems/autonomous systems; targeting/ISR sensors; missile performance and lethality; electromagnetic/environmental effects; and other emerging and enabling technologies and capabilities the Army may require/acquire to support Warfighter needs in the Joint All Domain Operations environment [previously referred to as Multi-Domain Operations (MDO)]. RTC is tasked to provide the Warfighter test and evaluation (T&E) capabilities that include, but are not limited to, the assessment of the operational feasibility and utility of developmental testing, training, and readiness prototypes that fall within USAFC's six priority areas that result in the provision of actionable test information and data to USAFC decision makers in a timely and cost effective manner. However, as technology continues to accelerate, adversarial threats continue to evolve, and USAFC's need to gain actionable test data and information to drive critical acquisition decisions continues to grow, RTC must change how it tests and assesses developmental testing, training, and readiness prototypes if it is to meet the growing and demanding technological and operational needs of today's (and tomorrow's) Warfighter.

The goal of the EVCAPP is to enable RTC to go from test planning to test report with unprecedented speed and agility resulting in significant enterprise wide increases to the quality of test and assessment information and data presented to key decision makers. To meet this goal, EVCAPP seeks to improve RTC's test and assessment methodologies and capabilities by demonstrating more agile, adaptable, and resilient test and assessment technologies, methodologies, processes, and capabilities that reduce test and reporting timelines and increase the availability of decision quality information and data to Army decision makers. This will include the novel application of commercial-off-the-shelf (COTS) technologies for defense purposes. Furthermore, EVCAPP seeks to demonstrate an integrated, agile, adaptable, resilient, holistic, and cost-effective test and assessment capability to support USAFC and RCCTO mission and vision to deliver Warfighter technologies and capabilities in a timely, reliable, and cost-effective manner. The overall classification level of this program will be SECRET, however most elements of it will be UNCLASSIFIED until real system under test data is introduced. The vendor's facilities may need to be cleared to the SECRET level.

The following provides a notional operational view (OV) of the proposed EVCAPP prototype effort.

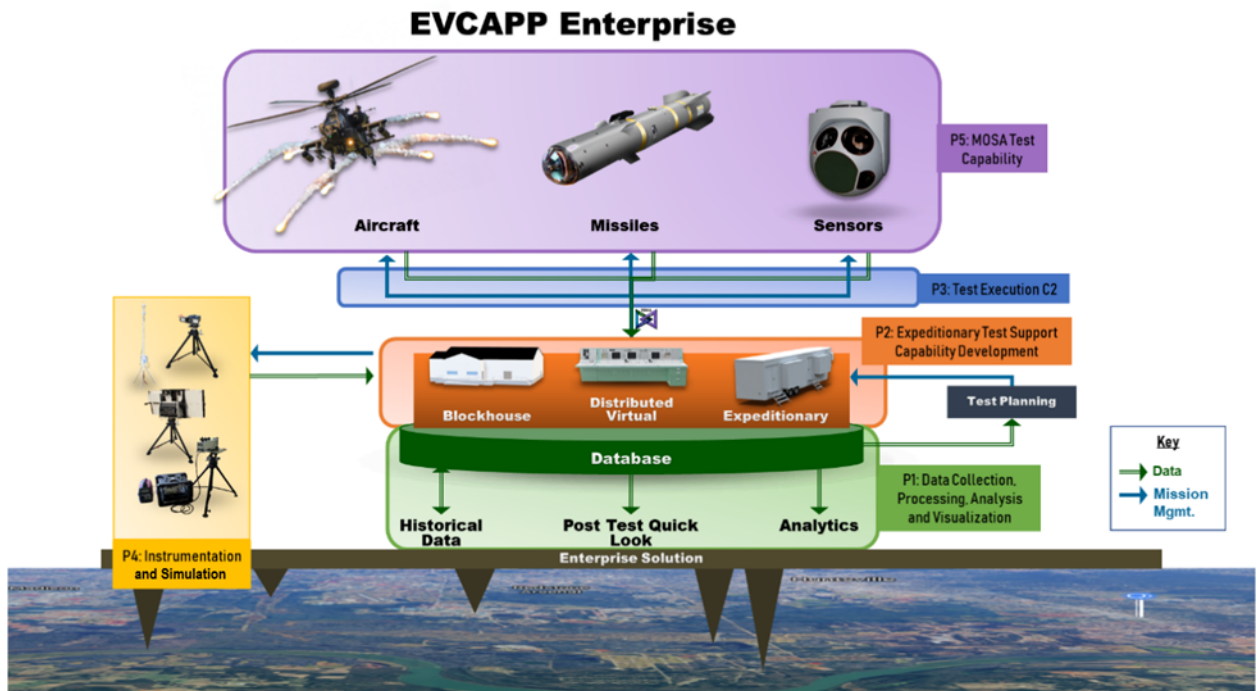


Figure 1. EVCAPP Enterprise OV

3. General Information

3.1. TReX

Vendors interested in responding to this RFS must be members of the Training and Readiness Accelerator (TReX). Information about membership can be found at the following webpage: <https://nstxl.org/membership/>. This project will be managed by the RTC, US Army Test and Evaluation Command.

3.2. Allowable Costs and Teaming

The cost of preparing and submitting a response is not considered an allowable direct charge to any Government contract or agreement. An individual vendor may not submit more than one comprehensive response to this RFS as a Prime. A vendor may participate as a sub-vendor to multiple responses. Non-compliance with the submission instructions provided herein may preclude the vendor from being considered for award.

3.3. Non-Government Advisors

Non-Government advisors will assist in the evaluation. The use of Non-Government advisors will be strictly controlled. All Government participants and Non-Government advisors in the evaluation process will be required to sign a non-disclosure agreements (NDAs) prior to working on the EVCAPP effort. The Agreements Officer will review NDAs for conflict prior to allowing access to source selection information.

All Non-Government advisors will only have access to the information corresponding to their area(s) of expertise. Non-Government advisors will not have access to the Price Volume of the response.

4. Government Furnished Information (GFI)/ Government Furnished Property (GFP)/Government Furnished Equipment (GFE)

4.1. The Government will provide existing GFE, data, and information to vetted vendors as necessary after award to complete the EVCAPP prototype effort. The Government will provide vetted vendors access to fielded systems and subject matter experts (SMEs) on a non-interference basis to support design, development, and testing efforts.

The Government anticipates the distribution of FOUO/Controlled Unclassified information at a D classification level (Distro D). However, in order to develop the EVCAPP prototype, the vendor(s) will need to have access to SECRET level databases and information. Therefore, the project will be classified at the SECRET level and all vendors and teammates (sub-vendors) will need to be able to perform under this classification level.

4.2. In order to obtain the documentation, the vendor shall complete Attachment 18 Self-Vetting Form, and submit a request in writing to INITIATIVES@NSTXL.ORG, with “EVCAPP Prototype” used in the subject line.

4.3 The GFI will contain the Distribution D statement and will require the vendor to be vetted prior to obtaining the GFI. Once the vendor is vetted, the vendor will then be required to complete and sign a GFI Tech Data Distribution Agreement (Attachment 17) which includes further guidance regarding the handling of the GFI. The Government will provide additional GFI to the awardee within 15 days after award of agreement.

4.4 Furthermore, vendors must provide a list of all GFI / GFE that the vendor believes is critical to enable development and demonstration of prototype. The Government cannot guarantee that all GFI / GFE requests can/will be accommodated.

5. Solutions Paper Responses

5.1 Solution responses shall contain separate Technical and Price Volumes. No pricing detail shall be provided in any volume other than the Price Volume. As appropriate, vendors shall mark their submissions with proprietary, confidential, etc. The volumes shall consist of:

- **Technical Volume Contents List**

- Cover Page
- Nontraditional Status
- Foreign Owned, Controlled or Influenced (FOCI) status
- Organizational Conflicts of Interest (OCI) and Mitigation Plans
- Sub-Vendor List
- Solution Paper (Vendor’s Technical Approach)
 - Technical solution for each Pilot Demonstration
 - Vendors Experience
 - Management Capabilities
- Data Rights Proposal and Assertions
- Government Desired Rights in Technical Data and Computer Software
- Anticipated Delivery Schedule
- Integrated Master Schedule (IMS)

- **Pricing Volume Contents List**

- Cover Page
- Cost and Pricing Breakdown for all Phases
- Rough Order of Magnitude (ROM)

5.1.1 Technical Volume

5.1.1.1 Cover Page

The cover page shall include the vendor's name, Commercial and Government Entity (CAGE) Code (if available), Data Universal Numbering System (DUNS) number, Business Size, address, primary point of contact (phone number and email), and status of U.S. ownership. The North American Industry Classification System (NAICS) Code for this effort is 541715, Research and Development in the Physical, Engineering, and Life Sciences (except Nanotechnology and Biotechnology).

5.1.1.2 Nontraditional Status

The vendor shall provide its nontraditional (see paragraph 4.1.2.1 for definition) business status or its ability to meet the eligibility requirements of 10 U.S.C. §2371b. The vendor shall check one of the following boxes – with appropriate justification if needed.

- There is at least one nontraditional defense contractor or nonprofit research institution participation to a significant extent in the project.
- All significant participants in the transaction other than the Federal Government are small businesses or nontraditional defense contractors.
- At least one third of the total cost of the project is to be provided by sources other than the Federal Government.

If the vendor is not a nontraditional defense contractor (NDC) and the first two checkboxes are not checked, additional information is needed to support the eligibility requirements of 10 U.S. C. §2371b.

The vendor shall provide the name and CAGE code, and DUNS number information for the NDC. Additionally, the vendor shall provide what portion of the work the NDC is performing and an explanation of how the prototype would not succeed based on the portion of work performed by the NDC. ACC Orlando defines "significant extent" as participation of such an extent that the prototype would not succeed without the participation of the non-traditional contractor or a combination of non-traditional contractors.

5.1.1.2.1 Definition Nontraditional – an entity that is not currently performing and has not performed, for at least one-year period preceding the solicitation of sources by the Department of Defense (DoD) for the procurement or transaction, any contract or subcontract for the DoD that is subject to full

coverage under the cost accounting standards prescribed pursuant to 41 U.S.C §1502 and the regulations implementing such section.

5.1.1.3 Foreign Owned, Controlled, or Influenced (FOCI) Status

In accordance with RFS Attachment 12, Security Process for Vetting Vendors, the vendor must include in the General Volume, certification that the vendor (and sub-vendor(s)) are not Foreign Owned or under USA FOCI status (and are not in merger or purchasing discussions for a Foreign company or USA FOCI Company). Should a prospective vendor be unable to so certify, they will be ineligible for award unless the mitigating circumstances in Attachment 12 Security Process for Vetting Vendors are met. In such a case, these mitigating circumstances shall be detailed in an appendix to the General Volume.

Security Vetting: All vendors who want to compete, bid, or team with others for this effort must be willing to comply with the PEO STRI Security Process for Vetting. All vendors (Prime and Subs) must be vetted for eligibility, suitability, national status, e.g., FOCI prior to the receipt of any award instrument.

5.1.1.4 Organizational Conflicts of Interest and Mitigation Plan

Vendors will submit an Organizational Conflict of Interest (OCI) Mitigation Plan via an appendix to its General Volume. In the event there are no real or perceived OCIs, simply state so and annotate what actions would be taken in the event that one is realized. The OCI mitigation plan is not part of the solution page count.

5.1.1.5 Sub-Vendor List

Vendor shall provide a list of all sub-vendors involved and their role within the performance of your submission as an appendix (which will not count towards the page count). The list shall include FOCI status and OCI.

5.1.1.6 Technical Solution Paper

Solution Paper responses should clearly address planned documentation deliverables (including format and content) and any planned demonstrations, design reviews, and management reviews. Responses shall be submitted in an executable (not scanned) Adobe PDF format and limited to no more than 20 pages, using standard 12-point Arial font. Any charts or figures are not bound by the 12-point font requirement but shall be clearly legible. A total of five foldouts are allowed. Vendors are not permitted to use this exception to “fit” a large amount of technical data in a small table or figure to stay under the page count limit. The Cover Page, Table of Contents, Sub-Vendor List, Government Desired Rights in Technical Data and Computer Software, FOCI documentation, List of

Figures, IMS, Delivery Schedule, Acronym Definitions, and Traceability Matrices do not count towards the page count limit.

5.1.1.7 Technical Approach

EVCAPP seeks to address current shortcomings in the Army's experimental validation ecosystem by developing and demonstrating more agile, adaptable, and resilient test and assessment technologies, methodologies, and processes that can support the increasing demand to provide USAFC [and other DoD key decision makers] with reliable and actionable test information and data in a timely and cost effective manner. This may include the novel application of commercial technologies for defense purposes and the demonstration of Network Device Interface (NDI) technologies and capabilities.

Focus Areas

EVCAPP will demonstrate new and innovative test and assessment technologies, methodologies, and processes that address the agility, adaptability, and resilience necessary to meet the growing technological and operational needs and demands of today's (and tomorrow's) Warfighter. An emphasis will be placed on the integration of these technologies to provide a holistic, enterprise wide RTC capability to plan, execute, and report on developmental testing. Specifically, EVCAPP will target the development, prototyping, testing (or assessment), and potential integration of innovative and unique test solutions and capabilities in the following focus areas:

- Data Collection, Processing, Analysis, and Visualization.
- Expeditionary Test Support Capability Development.
- Test Execution Command and Control (C2).
- Instrumentation and Simulation
- Modular Open System Approach (MOSA) Test Capability.

Each of these focus areas will be required to comply with the following:

- Test and Training Enabling Architecture (TENA) Compliance - all prototypes must be able to be commanded/controlled over the TENA network as well as exchange data across the network. See Attachment 2.

- Integration and Interoperability - all prototypes must maximize the use of a modular, open system approach to enable all end items to be integrated into a common test and evaluation platform. See Attachment 19.
- Cybersecurity compliance - all prototypes must be capable of meeting cybersecurity compliance requirements outlined in DODI 8510.01, Risk Management Framework (RFM) for DoD Information Technology (IT). See Attachment 5.
- Validation and Verification (V&V) - all prototypes will possess a validation and verification pedigree that will facilitate rapid accreditation of use in system performance assessments.

Pilot Demonstrations

RTC will conduct five pilot demonstrations centered on each of the EVCAPP focus areas. The anticipated period of performance for the EVCAPP program 48 months. RTC anticipates conducting Pilot One first, however, pilot demonstrations may be conducted simultaneously or separately. Each pilot demonstration will incrementally introduce new and innovative test and assessment technologies, methodologies, and processes into active RTC test programs and events to demonstrate and assess the feasibility and military utility of the EVCAPP prototype capabilities. This may require integration of the EVCAPP prototype capabilities to meet test specific applications. Demonstrations will be conducted periodically and may include initial demonstration, integration, and assessment of individual test and assessment technologies.

- **Pilot One: Data Collection, Processing, Analysis, and Visualization**
 - **Technical Objective:** Test solutions and capabilities sought include, but are not limited to, the development and potential integration of data storage (on premise and cloud based), networking, high performance virtual machining, artificial intelligence (AI), machine learning (ML), autonomy/teaming, real time data visualization, and other data analysis solutions to support real time and posttest analysis of test articles.
 - **Expected Outcome:** The Pilot One prototype capabilities will be utilized to provide rapid extraction, transformation, and loading of collected data into real-time and post-process visualization products and enable real time test article performance assessments.
- **Pilot Two: Expeditionary Test Support Capability Development**
 - **Technical Objective:** Test solutions and capabilities sought are for the expeditionary test control vehicles, test support vehicles, remote computing/networking, cross-domain information security (INFOSEC)

solutions, networking/power distribution, and data backhaul that will act as an expeditionary testing command hub. This expeditionary capability will provide the infrastructure for the EVCAPP technologies to integrate into a full expeditionary prototype system capable of the speed and agility required by RTC to meet AFC program goals. While the focus of this pilot is the infrastructure for an expeditionary capability, the technologies will likely be leverage for fixed base test ranges as well where applicable.

- **Expected Outcome:** The Pilot Two prototype capabilities will enable RTC to assess test articles in environments and locations not organic to Redstone Arsenal, AL by integrating the full suite of current and new EVCAPP capabilities into mobile assets that act as a full-service, self-contained test infrastructure. Additionally, the solution will provide a modular, open-system architecture that will enable RTC to interoperate with external organizations. This architecture will be accomplished using flexible, scalable, and open software interfaces and flexible and scalable hardware interfacing solutions.

- **Pilot Three: Test Execution Command and Control (C2)**
 - **Technical Objective:** Test solutions and capabilities sought include the development and potential integration of one or more tools that provide any or all functions required to conduct testing in both a fixed base range and expeditionary capability. These tools should provide one or more of the following: modular and open test control architectures, range weapon firing control, environmental generation, test area situational awareness (SA) tools, real time test article health and status monitoring, test environment monitoring, communications, and visualization. The test control architecture should allow for rapid integration of new test assets as they are provided under EVCAPP or provided by RTC for integration into the EVCAPP prototype capability.

 - **Expected Outcome:** The Pilot Three prototype capabilities will facilitate RTC to safely, effectively, and efficiently conduct local area, expeditionary, and distributed operations by providing an innovative and integrated solution to execute the test mission. This integrated solution is meant to enable RTC to be agile and rapidly adapt to emergent test requirements without delaying USAFC's deployment schedules.

- **Pilot Four: Instrumentation and Simulation**
 - **Technical Objective:** Test solutions and capabilities sought include the development and potential integration of instrumentation to support the collection of electro-optical/infrared data, structural data, lethality/survivability data, atmospheric characterization data,

time/space/position information data, test article data recording, telemetry, and infrared and radio frequency simulation.

- **Expected Outcome:** The Pilot Four prototype capabilities will facilitate RTC's assessment of test articles in both an open air and hardware-in-the-loop (HWIL) framework by enabling RTC to collect data in an integrated fashion.
- **Pilot Five: Modular Open System Approach (MOSA) Test Capability**
 - **Technical Objective:** Test solutions and capabilities sought include the development and potential integration of tools and techniques to test and validate MOSA enabled hardware (H/W) and software (S/W).
 - **Expected Outcome:** The Pilot Five prototype capability will facilitate RTC to assess the effectiveness of MOSA hardware and software utilizing hardware in the loop, airborne surrogate test beds, live/virtual/constructive (LVC), and laboratory modeling and simulation (M&S).

Each pilot demonstration will follow a general prototype project framework and schedule driven by the following milestones.

- An overall pilot kick-off meeting will be conducted.
- Initial requirements and priorities will be defined during a spiral kick-off meeting.
- The Government anticipates that the priorities may need to be refined based on user interactions and stakeholder inputs. These stakeholder interactions will be conducted at least once per spiral.
- The Government anticipates that Demonstrations of Capability and reviews of the proposed capability roadmap (which will include requirements, designs, and plans) for each capability development iteration will be conducted. These will be conducted as negotiated with the performers.
- Incremental operational capability acceptance testing will be conducted in an event driven fashion against test articles being evaluated by RTC. If a test article is unavailable at the time of validation, a functional equivalent acceptance test will be conducted.
- At the completions of incremental operational capability, the Government anticipates the transition of the capability, a validation/verification report, spares list, life cycle maintenance recommendations, and an applicable interface configuration management document. Additionally, any required training and certification will be provided to RTC personnel.

Figure 1 below is a notional chart illustrating the spiral development approach EVCAPP pilot demonstration will use to develop and demonstrate more agile, adaptable, and resilient test and assessment technologies, methodologies, processes, and capabilities from each focus area. Development priorities will be defined pre-milestone during the

planning phases of the spiral.

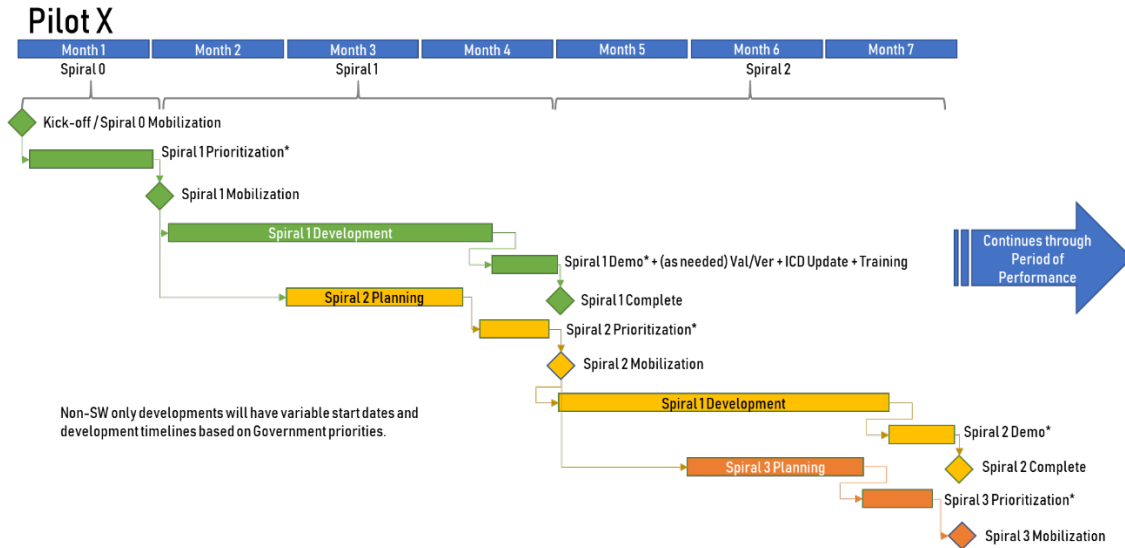


Figure 1. Example Pilot Timeline

5.1.1.8 Government Desired Rights in Technical Data and Computer Software

For the purposes of this RFS and final award document, the Government will use the data rights and computer software related terms defined in Attachment 15, Data Rights License Terms Definitions.

Vendor shall complete the Data Rights Assertions Tables using the format provided in Attachment 14, Data Rights Assertions Tables. The vendor’s assertions, including any assertions of its sub-vendors or suppliers must be submitted as an attachment to its Solution Paper. The tables must be completed in the format set forth in the attachment, dated and signed by an official authorized to contractually obligate the vendor. If additional space is necessary, additional pages may be included. There is no page limit for the Data Rights Assertions Tables, and they do not count against the proposed technical solution page limitation.

The vendor shall deliver the technologies developed under this effort with Government Purpose Rights to the Government. This includes the following:

- (a) Data pertaining to an item, component, or process which has been or will be developed exclusively with Government funds;
- (b) Studies, analyses, test data, or similar data produced for this contract, when the study, analysis, test, or similar work was specified as an element of performance;
- (c) Created exclusively with Government funds in the performance of a contract that does not require the development, manufacture, construction, or production of items, components, or processes;
- (d) Form, fit, and function data;
- (e) Necessary for installation, operation, maintenance, or training purposes (other than detailed manufacturing or process data);
- (f) Corrections or changes to technical data furnished to the Vendor by the Government;
- (g) Otherwise publicly available or have been released or disclosed by the Vendor or Vendor partners without restrictions on further use, release or disclosure, other than a release or disclosure resulting from the sale, transfer, or other assignment of interest in the technical data to another party or the sale or transfer of some or all of a business entity or its assets to another party;
- (h) Data in which the Government has obtained unlimited rights under another Government contract or as a result of negotiations; or
- (i) Data furnished to the Government, under this or any other Government contract or Vendor partner contract thereunder, with—
 1. Government purpose license rights or limited rights and the restrictive condition(s) has/have expired; or
 2. Government purpose rights and the Vendor's exclusive right to use such data for commercial purposes has expired

Commercial Computer Software

If the Government has a need for rights not conveyed under the license customarily provided to the public, the Government must negotiate with the third-party software vendor(s) to determine if there are acceptable terms for

transferring such rights. The specific rights granted to the Government shall be enumerated in the license agreement or an addendum thereto.

The Government shall only have the rights specified in the license for the commercial computer software and its related commercial computer software documentation for the software listed in the tables below. The terms of any End User License Agreements (EULA) apply only to the extent they are consistent with law and Attachment 16, Terms and Conditions and EULA

Rights in Noncommercial Computer Software and Documentation

The vendor(s) grants or shall obtain for the Government the following royalty free, world-wide, nonexclusive, irrevocable license rights in noncommercial computer software or computer software documentation. All rights not granted to the Government are retained by the vendor. All rights in Technical Data and Computer Software are negotiable based on the vendor's proposed solution. The Government seeks Unlimited Rights to all development and deliverables of technical data and computer software funded under the transaction agreement.

The vendor shall describe the intellectual property rights being provided to the Government in terms of technical data, both in software and hardware, clearly outlining any rights restrictions. If the proposed solution includes commercial software, copies of any applicable EULAs must be submitted with the response. It is the Government's intent to plan for the concurrency, maintenance, and modification of the hardware and/or software using Government personnel and third-party contractors. The EULA submissions have no page limit and do not count against the proposed technical solution page limitation.

The vendor shall make a willful attempt to analyze feasible non-proprietary solutions and incorporate them when applicable to the effort. This includes, but is not limited to, software rights, data, source code, drawings, manuals, warranties, and integration efforts. The vendor shall clearly state all assumptions made during development of responses.

5.1.1.9 Anticipated Delivery Schedule

The vendor shall include the anticipated delivery dates with their solution that includes all EVCAPP Prototype capabilities and completion dates for all tasks and task stages as described in the RFS.

5.1.1.10 IMS

An IMS shall be provided, using Microsoft Project. The IMS should be resource loaded with each task including a predecessor (if applicable), and correlate to the Basis of Estimates (BOE). The IMS may be attached as an appendix file. The IMS is not included in the total page count and page count is unlimited.

5.1.2 Pricing Volume

5.1.2.1 Cover Page

The cover page shall include the title, vendor's name, CAGE Code (if available), DUNS 769 number, Business Size, address, the primary point of contact (phone number & email), 770 and status of U.S. ownership.

5.1.2.2 Cost and Pricing Breakdown

Vendors shall submit a firm-fixed price amount for its solution, further divided into severable milestones for all phases. The Government is not dictating a specific price mechanism. However, proposed payments should be linked to clearly definable, detailed milestones in each phase. It should be clear, with sufficient detail, what is being delivered at each milestone. The vendor's pricing milestones may vary from the defined decision points, depending on the proposed solution. Milestones should be established and priced in a manner that enables milestone efforts be worked concurrently. Each milestone price should reflect the anticipated value the Government will receive toward accomplishment of the OTA goals and objectives at the time the milestone is completed. The price volume has no page number limitation.

It is important to note, the entire five-year prototype project has a maximum ceiling budget of \$83,000,000. The government anticipates up to \$7,000,000 are available for the first year of this project however, an additional \$15,000,000 is anticipated before the end of the year. The prototype project will be incrementally funded as funding becomes available. The government may not fund the full value of this agreement based on the outcome of the various demonstrations conduct throughout the period of performance.

5.1.2.3 Rough Order of Magnitude (ROM)

Vendors shall provide a ROM pricing for potential follow-on production activities. Please note, the Follow-On ROM will assist in future planning efforts for potential follow-on efforts. The Follow-On ROM is not part of the evaluation.

6 RFS Response Instructions

The Government intends to make a single OT award as a result of this RFS. However, more than one award may be made if determined to be in the Governments best interest. The Government also reserves the right to award to

respondents that provide attributes or partial solutions of value to the Government. Vendors do not have to submit on the entire solution to be awarded an agreement.

6.1 All questions related to this RFS shall be submitted utilizing the Vendor Questions Form provided in Attachment 13. Questions must be submitted via email to initiatives@nstxl.org, with “EVCAPP Prototype Vendor Questions” in the subject line.

6.2 Questions must be submitted no later than **12:00 PM EDT on 6 November 2020**. Questions received after the deadline may not be answered. Questions shall not include proprietary data as the Government reserves the right to post submitted questions and answers, as necessary (and appropriate) to facilitate vendor solution responses.

6.2.1 The Government reserves the right to post submitted questions and answers, as necessary (and appropriate) to facilitate vendor Solution Paper responses. Submitted questions will be posted without identifying company names.

6.3 Solution Responses shall be submitted no later than **12:00 PM EDT on 28 February 2020**. Solution Responses shall be submitted electronically to initiatives@nstxl.org, with “EVCAPP Prototype” used in the subject line. Any submissions received after this time on this date may be rejected as late and not considered.

6.3.1 Vendors must clearly state assumptions made within their response. Vendors are encouraged to challenge any Government assumptions or restrictive requirements in its individual solution and should articulate any major discrepancies between the RFS and its technical solution. Should a vendor’s solution require a change in policy and/or statute, the vendor shall outline within their technical volume, and describe why the change is needed to realize the benefit of the vendor’s prototype (and potential production).

6.3.2 Vendor’s solutions shall be valid for at least 180 days after submission.

7 Evaluation and Selection Process

7.1 Vendors are encouraged to submit a written Solution Paper. Solution papers will be evaluated with consideration given to the vendor’s ability to provide a clear description of the proposed solution, technical merit of the response, feasibility of implementation, vendor’s experience, and total project risk. The proposed project price, delivery schedule, and data rights assertions will be considered as aspects of the entire response when weighing risk and reward.

7.2 The Government will evaluate the degree to which the submission provides a thorough, flexible, and sound approach in response to the ability to fulfill the requirements.

7.3 Interested vendors are requested to provide proposed solutions outlining their:

- Technical Merit – The vendor’s technical analysis and design approach to carry out the project requirements.
- The vendor’s past experience designing, developing, prototyping, and integration of test range infrastructure, test equipment, and related T&E Products.
- The vendor’s past experience designing, developing, prototyping, and integration of data acquisition, data analysis, and data visualization products.
- The vendor’s capability to handle simultaneous development and integration efforts for multiple platforms, missions, and locations.
- The vendor’s past experience supporting the test and assessment of aviation, missile, and sensors platforms.
- Management Capabilities to include: Team composition/personnel and sub-vendor involvement, integration/prototyping capabilities, digital engineering capabilities to include model-based systems engineering, software assurance capabilities, software continuous integration/continuous deployment capabilities, and facilities.
- An IMS for the entire effort

7.4 For each technical objective, a proposed manning level containing labor categories and direct labor hours broken down per month and tied to the IMS with an accompanying BOE for the labor-hours. The technical response is expected to clearly outline the appropriate assertion right in technical data, computer software and software documentation that will be delivered with the solution.

7.5 Pricing

- Pricing data should not be found in the Technical Section and should be provided in a separate document. The technical objectives will be separately priced.
- The vendor’s approach for handling follow-on activities described in Section 8: Follow-on Production. The Government will not evaluate vendor submissions related to follow-on activities; however, the Government will seek a pricing estimates (a ROM) for planning purposes.

7.6 Selection Process

7.6.1 The Government will review each vendor's submittal against the criteria, with major consideration given in no specific order of importance to the technical merit (including product line quality factors such as agility and reuse), feasibility of implementation, and total project risk. The proposed project price, delivery schedule, and data rights assertions will also be considered as aspects of the entire response when weighing risk and reward. Further, the Government will evaluate the degree to which the proposed concept provides an innovative, unique – yet realistic and sustainable - approach to meeting the EVCAPP Prototype technical capabilities and objectives.

7.6.2 Assessment of risk is subjective. If the risk is obvious or the schedule seems overly aggressive, the Government will consider that in the total risk assessment. Vendors are responsible for identifying risks within their submissions, as well as providing specific mitigation solutions. If sufficient validation of the proposed information is not provided, the Government may reject the submission.

7.6.3 Unsupported assertions will be discounted by the evaluators. Technology and Manufacturing Readiness Levels will be considered when weighing the benefit of the proposal.

7.6.4 The Government reserves the right to award to a vendor that does not meet all of the requirements but provides attributes or partial solutions of value.

The Government will award to the vendor(s) whose response will be most advantageous to the Government with price and other factors considered. In making the final decision it may become necessary to compare the solutions of each vendor against the other, but the Government anticipates that its decision is more likely to be made based on each vendor's submittal as evaluated against the criteria described and a determination of which solution(s) is/are deemed most promising to satisfy the Government's need.

8 Additional Information

8.1 Export Controls

Research findings and technology developments arising from the resulting proposed solution may constitute a significant enhancement to the national defense and to the economic vitality of the United States. As such, in the conduct of all work related to this effort, the recipient will comply strictly with the International Traffic in Arms Regulation (22 C.F.R. §§ 120-130), the National Industrial Security Program Operating Manual (DoD 5220.22-M) and the Department of Commerce Export Regulation (15 C.F.R. §§ 730-774).

8.2 Interaction and/or Disclosure with Foreign Country/Foreign National Personnel

The Vendor should comply with foreign disclosure processes described in US Army Regulation (AR) 380-10, Foreign Disclosure and Contacts with Foreign Representatives; Department of Defense Directive (DoDD) 5230.11, Disclosure of Classified Military Information to Foreign Governments and International Organizations; and DoDD 5230.20, Visits and Assignments of Foreign Nationals.

8.3 All submissions will be unclassified. Submissions containing data that is not to be disclosed to the public for any purpose or used by the Government except for evaluation purposes will include the following sentences on the cover page:

“This submission includes data that will not be disclosed outside the Government, except to non-Government personnel for evaluation purposes, and will not be duplicated, used, or disclosed -- in whole or in part -- for any purpose other than to evaluate this submission. If, however, an agreement is awarded to this Company as a result of -- or in connection with -- the submission of this data, the Government will have the right to duplicate, use, or disclose the data to the extent agreed upon by both parties in the resulting agreement. This restriction does not limit the Government's right to use information contained in this data if it is obtained from another source without restriction. The data subject to this restriction are contained in sheets [insert numbers or other identification of sheets]”

8.4 Each restricted data sheet should be marked as follows:

“Use or disclosure of data contained on this sheet is subject to the restriction on the title page of this submission.”

8.5 Statement of Work (SOW)

The proposed solution will be used to collaboratively negotiate a SOW after selection for the award. The SOW will be incorporated into the OTA as part of the award.

9 Follow-On Production

The Government anticipates one or more EVCAPP prototype solutions may require further development to support initial operational capabilities (IOC). IOC is defined as the ability to develop and test prototypes that lead to the successful transition of distributed logistics enhancing capabilities and technologies to the Warfighter. To establish IOC, follow-on activities, such as further development or production, may be required for one or more of the EVCAPP variant prototypes.

If the EVCAPP prototype project is successfully completed, the Government anticipates conducting a low rate initial production (LRIP) of one or more EVCAPP prototype

solutions may be required to support an extended user evaluation (EUE) of the prototype capability to support full operational capabilities (FOC). Finally, the Government anticipates there may be a need to produce one or more of the EVCAPP prototype capabilities to address RTC's requirement to holistically improve test and assessment methodologies and capabilities by implementing more agile, adaptable, and resilient test and assessment technologies, methodologies, processes, and capabilities that reduce test and reporting timelines and increase the availability of decision quality information and data to Army decision makers.

Further, the government reserves the right to determine part or all of the prototype project is successfully completed if the vendor shows a particularly favorable or unexpected result justifying the transition to production.

10 Attachments

Attachment 1, RTC/ASE Architecture for Test and Evaluation (T&E) of Hostile Fire (HF) (RATH) System Description and Interfaces Document, Unclassified/FOUO

Attachment 2, TENA ARD 2016-11, The Test and Training Enabling Architecture (TENA) – Architecture Reference Document (ARD), [Dhttps://www.tena-sda.org/display/TENAintro/Home](https://www.tena-sda.org/display/TENAintro/Home), Distribution A

Attachment 3: IRIG 106-19, Telemetry Standards, https://www.irig106.org/wiki/irig_106-19, Distribution A

Attachment 4: RTC Archive Gateway Environment (RAGE) System Manual and Interface Document, FOUO

Attachment 5: DODI 8510.01, Risk Management Framework (RFM) for DoD Information Technology (IT), cleared for public release

Attachment 6: SIMDIS 3-D Analysis and Display Toolset, <https://simdis.nrl.navy.mil>, Distribution A

Attachment 7: RTC Supplement to ATEC Regulation 73-1: System Test and Evaluation Policy, FOUO

Attachment 8: Range Commanders Council (RCC) 319 – Flight Termination Systems Commonality Standard, Distribution A

Attachment 9: RCC Documents – <https://www.wsmr.army.mil/RCCsite/Pages/default.aspx>, Distribution A

Attachment 10: MIL-STD-1553 - Rev. B with Change Notice 4, Aircraft Internal Time Division Command/Response Multiplex Data Bus, Jan 1996, Distribution A

Attachment 11: Taxonomy Study - The U. S. Army Aviation and Missile Research Development and Engineering Center, RTC, FOUO

Attachment 12, Security Process for Vetting Contractors

Attachment 13, Questions Form

Attachment 14, Data Rights Assertions Tables

Attachment 15, Data Rights License Terms and Definitions

Attachment 16, Terms and Conditions and EULA

Attachment 17, GFI Tech Data Distribution Agreement

Attachment 18, Self-Vetting Form

Attachment 19, Modular Open Systems Approach Reference Frameworks in
Defense Acquisition Programs, Distribution A