

# **CO-21-0008 GARRISON DCO PLATFORM – VERSION 4**

## **Initial Submission Deadline: 1 June 2021**

### **INTRODUCTION**

Project Manager Defensive Cyber Operations (PM DCO) in collaboration with SOSSEC, Inc. is seeking solutions for commercial technologies to foster technological innovation relevant to the capability gap identified in this Announcement. In this context, innovative means any new technology, process, or business practice, or any new application of an existing technology, process, or business practice that that enhances mission effectiveness for PM DCO.

This Announcement is considered a competitive process and includes multiple phases for selection through a rodeo. Potential prototype projects will be directly relevant to enhancing the effectiveness of the PM DCO Army Cyber Mission Forces. This Announcement may result in the award of prototype project(s) as a result of this multi-phased competitive process. Please note the dates listed in this Announcement are tentative dates and may be subject to change based on actual progress made through each phase of selection.

### **STATEMENT OF OBJECTIVES**

PM DCO seeks industry innovation for solutions, technologies, and/or capabilities to meet the statement of objectives (Appendix 001) of the Garrison Defensive Cyberspace Operations (DCO) Platform (GDP).

The solution will increase/expand the current capability of the GDP to bring combat power against the enemy. The GDP/ Global Enterprise Fabric (GEF) convergence will enable cyber defenders to perform DCO expansion across various locations. The two current solutions require additional capability to out maneuver the adversary to avoid detection based on new intelligence and/or new avenues of approach, due to the physical size of the GDP v2 and the reliance and tie to GEF locations for the GDP v3.

## PROCESS/TIMELINE

\*This project will follow an aggressive timeline\*

### Phase I: Proposal Lite Submission – Due **1 June 2021 NLT 9:00 AM EST**

- **Virtual Q&A – 27 May 2021 at 1300 EST:** The Government will facilitate the Virtual Q&A via Microsoft Teams to give interested respondents an opportunity to ask questions on the information provided in this Announcement. The information provided during this event will be driven by participant questions. The Government will answer questions in real time, and participants are encouraged to review this Announcement in its entirety to prepare questions ahead of the scheduled event (send questions to SOSSEC prior to the Virtual Q&A by 12pm EST, Tuesday, 25 May). Please note the Government does not intend to distribute meeting minutes or provide any follow up information from this event for those unable to attend. Participation is highly encouraged to ensure respondents are adequately to be best informed on any topics that might require clarification or further guidance.
  - **Please use the below URL for the Virtual Q&A on Microsoft Teams:**
    - [https://teams.microsoft.com/l/meetup-join/19%3ameeting\\_NDIwODJkODYtNGE1YS00NDNhLWEzYzMtMicyNDVhYmU0MTg2%40thread.v2/0?context=%7b%22Tid%22%3a%2221acfb3-32be-4715-9025-1e2f015cbbe9%22%2c%22Oid%22%3a%22e0f2c8f7-9af3-4d62-8727-1a333b5cf8c4%22%7d](https://teams.microsoft.com/l/meetup-join/19%3ameeting_NDIwODJkODYtNGE1YS00NDNhLWEzYzMtMicyNDVhYmU0MTg2%40thread.v2/0?context=%7b%22Tid%22%3a%2221acfb3-32be-4715-9025-1e2f015cbbe9%22%2c%22Oid%22%3a%22e0f2c8f7-9af3-4d62-8727-1a333b5cf8c4%22%7d)
    - Call in #: 571-388-3904 (PIN: 204 301 896#)
- **Proposal Lite – Due 1 June 2021 NLT 9:00 AM EST:** The purpose of the proposal lite submission is to validate proposed solutions that meet the minimum criteria identified in Appendix 001. All technical Information that makes up the demonstration for the rodeo will need to be stated in the proposal lite. The proposal lite will also include the data rights assertions for the vendor, the data rights of the Government and any Intellectual Property rights that pertain to the vendor. The Government requires Government Purpose Rights (GDP) for the GDPv4. The Government also intends to request pricing from those Companies being favorably considered for entrance into Phase II. Vendors may submit multiple Proposal Lite's for different solutions that can address the capability gap. Each proposal lite submission will be reviewed independently against evaluation criteria listed in Appendix 004. See Appendix 002 for Proposal Lite instructions.
- **Down select – 8 June 2021:** Respondents with a favorably evaluated Proposal Lite will receive an invitation for advancement to Phase II One-on-One discussions. However note that PM DCO may elect to proceed directly to Phase III Pricing after a successful Phase I evaluation and will provide such notification to respondents with a favorably evaluated Proposal Lite.

## **Phase II: Rodeo/One-on-One/Proposal Lite – June 2021:**

- **Rodeo/One-on-One Discussions** - The Government intends to conduct a Rodeo of the final solutions that are being favorably considered after evaluation of Phase I. This event is scheduled to occur at the Fort Gordon – Augusta area in Georgia. Additional details for this event will be provided after Phase I. The purpose of this phase is to discover, learn and understand more about the proposed solution, but most importantly, what innovation the proposed solution offers the Government. On the day of the Rodeo, each invited vendor will be given 1.5 hours for set-up, showcase their solution(s) and one-on-one discussions. During the Rodeo the vendor will present how the proposed solution solves the problems the Government may or may not have thought of yet. The Government encourages invitees to focus on what innovative approach the proposed solution brings that shall be highlighted and considered by the Government and/or what else does the proposed solution offer besides what the Government is asking for?
- **Rough Order of Magnitude (ROM)**: The Government is requested a ROM during this Phase. The ROM should include a summary of all cost (e.g., breakdown of labor, ODCs, Hardware and Software).
- **Down select – TBD 2021**: Respondents with favorably evaluated solution based on Phase II Rodeo /One-on-One Discussions and Proposal Lite will receive an invitation for advancement to Phase III.

## **Phase III: Vendor Proposals – TBD 2021:**

The Government intends to request price proposals from those Companies being favorably considered after Phase II for a prototype project award. Companies may collaboratively build project requirements for their specific solutions with the Government team and negotiate agreement terms and conditions for award, to include pricing structure (i.e. contract type). The Government reserves the right to correspond with respondents individually to collect price information and answer pricing related questions. Such exchanges may result in multiple price submissions to address Government questions. Companies should also propose the final solution from the Rodeo event in Phase II to the final product.

During this phase the Contractor shall propose a maintenance/support concept for Field (operator/crew), sustainment (Below Depot and/or Depot) and contractor logistics support (CLS). Three (3) year standard warranty for prototype and follow on potential production systems starting at the time of fielding/install. The warranty shall be included in the unit price. The Contractor shall propose ancillary spare and repair parts that meet the requirements of the GDPv4 system and conform to all other requirement of the contract. The Contractor shall propose a minimum of a one (1)

year commercial warranty on all system returned after repaired. The Contractor shall identify and provide all assumptions/limitations of the proposed maintenance/support concept including: warranty hardware, firmware, repair/replacement, turn-around times, status reporting, transportation, personnel skills and test equipment.

The Contractor shall propose a virtual/in person training, and training material (digital and hardcopy) to the Government to adequately reflect the GDPv4 being provided.

The Contractor shall include in their pricing the minimum of a user, administrating guides, troubleshooting manual (digital and hardcopy) that adequately reflect the GDPv4 being provided.

The Contractor shall include Risk Management Framework (RMF) to include the following areas: ACAS scanning, STIG Checklists, POA&M Management, IAVMs Applicability, A&A Support. This will be in support for obtaining an Authority To Operate (ATO) if the proposed GDPv4 solution does not have one.

#### **Phase IV: Final Down Select – TBD 2021:**

Awards under this Announcement will be Other Transaction Agreements<sup>1</sup> under 10 U.S.C. 2371b for Prototypes Projects with potential follow-on non-competitive Production Agreements or FAR-based contracts. Multiple awards may be made to pursue dissimilar solutions shall they all meet the technical criteria and funds are available.

**Note 1:** All potential respondents shall be aware that due to unanticipated budget fluctuations, funding in any or all areas may change with little or no notice, impacting the number of prototype award(s).

**Note 2:** The Government reserves the right to select all, part, or none of the solutions briefs received.

#### **HOW CAN YOU PARTICIPATE?**

1. Review the Statement of Objectives in Appendix 001.
2. Review the instructions for submitting Proposal Lite in Appendix 002.
3. Review the Guidelines for Proposal Lites, Rodeo/One-on-One discussions, and Proposals in Appendix 003.
4. Review the Basis of Evaluation in Appendix 004.

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<sup>1</sup> Other Transaction Agreement (OTA): Legally binding instruments not subject to the requirements of the Federal Acquisition Regulation (FAR) obligating the Government for a purpose IAW 10 USC 2371 and 2371b.

5. Submit a Proposal Lite on the Vulcan Technology Platform at:

<https://vulcan-sof.com/login/ng2/submission?collectionUuid=db8bbadd-7db7-4158-a77f-da053d77d98c>

## QUESTIONS

Questions regarding this Announcement shall be sent to the SOSSEC managers:

- Eugene Del Coco at [edelcoco@sossecinc.com](mailto:edelcoco@sossecinc.com)
- Jeff Carstairs at [jcarstairs@sossecinc.com](mailto:jcarstairs@sossecinc.com)

## DISCLAIMERS

### Follow-On Production

The potential for follow-on production for any of the prototype projects awarded from this announcement will be in accordance with 10.U.S.C. 2371b(f). Upon a determination that a competitively awarded prototype project has been successfully completed in accordance with identified criteria, and subject to the availability of funds, prototype project(s) may result in the award of a follow-on production contract or transaction without the use of competitive procedures. The scope of any follow-on production may include, but is not limited to, software licensing, training, software maintenance, and engineering type support for integration and cyber security compliance purposes not anticipated during the prototype project.

### Use of Contractor Support

Non-Government advisors may be used in the evaluation of all Phases under this announcement and will have signed Non-Disclosure Agreements (NDAs) with the Government. The Government understands that information provided in this Announcement is presented in confidence and may contain trade secret or commercial or financial information and agrees to protect such information from unauthorized disclosure to the maximum extent permitted and as required by law. A respondent's participation in any part of the selection process under this announcement indicates concurrence with the aforementioned use of contractor support personnel.

- Octo Consulting Group
- Northtide Group
- Steelgate LLC (subcontractor to Perspecta)



## APPENDIX 001- STATEMENT OF OBJECTIVES

The desired update to the GDP should address the following statement of objectives (SoB):

**SoB1:** The Current GDP system is built on older hardware that requires massive amounts of rack space (42U), power, and cooling from the defended network owner. Recent technological improvements allow for massive reduction in size, power, and cooling requirements, reducing our overall impact on the defended network owner's infrastructure, while also offering enhanced processing and storage over the current iteration. At its largest configuration, the requested system should be no larger than 12U in size.

**SoB2:** The requested system needs to take advantage of new hyper-converged high performance hardware capabilities. Doing so will enable a much denser form factor and enable better performance. With a denser form factor, it will enable transportation via airline under carriage and rack mounting of the system. With different locations having vastly different network sizes, this solution should be engineered to add hardware based on location requirements. Options can include: changing out server blades inside of a server chassis to increase compute, adding of a storage device or drives, additional taps, and/or expansion cards.

**SoB3:** It is preferred the requested system have a hardware solution for controlling and managing the system (e.g. IPMI v2.0 or newer). This will enable both the operators and maintainers to remotely control the system. Requested system will utilize this for access to PM DCO's patching, updating, remote rebuild/reconfiguration, and maintenance of the system and software on it. A hardware-based firewall is requested for system boundary protection, and a solution for secure remote communications. The solution can be the same hardware alliance.

**SoB4:** The requested system should use the same hypervisor that the current DCO Suite of Complimentary Systems (DSCS) uses, or be compatible with that hypervisor, incurring no additional cost. The system needs to concurrently run the following capabilities with resources (i.e, CPU, RAM, Storage) for an enterprise DODIN network defended by a RCC.

- Security Information and Event Management (SIEM) cluster with enough storage per STIG requirements.
- Endpoint Detection and Response (EDR)
- Forensic / Incident Response software
- Host and Network endpoint mapping / vulnerability analysis
- Sensor management software of capture requirement

- Internal system management software

**SoB5:** The requested system must integrate with, and forward data to, the Big Data Platform (BDP) and be able to operate the BDP at echelon on it in the future.

**SoB6:** The requested system, with the use of built in network taps (hardware or software based), needs the ability to capture / process / store multiple links of an aggregate speed of 40 Gbps. Expectation is that the links are fully saturated and captured with minimal packet loss (no more than 1%). Processing and storage specifications would be post-packet filtering through the network taps. Network capture ports need to be flexible to receive any type of cable as each defended network varies in cable type. Network Capture capability needs a minimum of 4 ports. A possible solution would be SFP+ ports with accompanying transceivers for different interface types.

**SoB7:** The requested system must take full advantage of high capacity back plan network speeds. Node and Virtual machine communication requires the highest possible speeds when performing.

#### Additional Performance Initial Minimum Value (IMV) Matrix

Performance	Description	Metric	IMV
Observation of AO Using Cyber Means	Provide enough processing power for authorized users to examine ingested data packets in order to discover protocol non-compliance, viruses, spam, intrusions, or other defined criteria	Processing power	<ul style="list-style-type: none"> <li>• 64 cores hyper-threaded               <ul style="list-style-type: none"> <li>○ Upgradable to 128</li> </ul> </li> <li>• Baseline 1TB memory               <ul style="list-style-type: none"> <li>○ Upgradable to 2TB</li> </ul> </li> </ul>
Assembling, Holding, & Organizing Data for Onward Movement	Expandable memory and high-speed file transfer storage	Data Volume	<ul style="list-style-type: none"> <li>• Baseline 150TB storage               <ul style="list-style-type: none"> <li>○ Upgradable to &gt;300TB</li> </ul> </li> </ul>



# APPENDIX 002 – PROPOSAL LITE INSTRUCTIONS (PHASE I)

## Proposal Lite

1. Format
  - a. Proposed Solution Description: The proposal lite shall address what solution the respondent is proposing and how the proposed solution meets the technical criteria in Appendix 001. Describe if your capability currently has an Authority To Operate (ATO) if so; please identify with whom, if not, indicate if you're in the process of obtaining an ATO.
  - b. Proposed Solution Diagrams: Having the following visuals included in the proposal lite would be beneficial: Network diagrams, hardware diagram, diagram of how it fits in the cases, as well as software diagram/integration.
  - c. Rodeo: The proposal lite should describe the solution the vendor will showcase during the Rodeo.
2. Shall be written in clear, concise, layman style statements.
3. Limited to THREE PAGES MAXIMUM. (Cover Page not included)
  - Font size shall be no smaller than 12 pt.
  - Font type should be Arial
4. Cover Page: Vendors must provide the following background information with their proposal lite submissions.
  - Name of Company
  - Company Address
  - Company POC (name, email, phone)
  - Company URL
  - Where is your organization based? (US Based Company/Internationally Based Company)
  - Does your Company identify as: Large/Small Business or not a commercial endeavor
  - Does your Company identify as: traditional or non-traditional<sup>2</sup> contractor

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<sup>2</sup> Non-traditional Defense contractor (NDC): An entity that is not currently performing and has not performed, for at least the one-year period preceding the solicitation of sources by 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 section 1502 of title 41 and the regulations implementing such section (see 10 U.S.C. 2302(9)).

- SOSSEC Member (yes/no)

5. All Proposal Lite uploaded to Vulcan must adhere to the following naming convention.

**CO-21-0008\_Company Name\_GDPv4\_Solution Title**

## APPENDIX 003 – GUIDELINES FOR PROPOSAL LITE, RODEO, AND PROPOSALS

- 1) 10 USC 2371b requires competitive procedures be used to the maximum extent practical. This Announcement serves as a competitive opportunity for interested parties to present solutions and be evaluated for selection of a prototype project and is considered to satisfy the reasonable effort to obtain competition in accordance with 10 USC 2371b (b)(2).
- 2) The Government will not reimburse interested respondents for costs of preparing and submitting proposal lite, pricing information, or any other activity during the competitive selection process.
- 3) Unnecessarily elaborate brochures or marketing materials are not desired.
- 4) Use of a diagram(s) or figure(s) to depict the essence of the proposed solution is encouraged.
- 5) All information in proposal lite must be unclassified **and non-proprietary**. Submission of a proposal lite under this Announcement indicates confirmation that the submission provided is unclassified and does not contain proprietary information.
- 6) The period of performance for any prototype project awarded as a result of this Announcement will be approximately 24 months.
- 7) Proposal lites may be considered by the Government for a prototype award up to one (1) year after submission for same or similar requirements.
- 8) The Government will be using the Vulcan Technology Platform to collect, receive, share, and assess proposal lite. Vendors interested in responding to this announcement will need to register to obtain access to Vulcan at the following website: [www.Vulcan-SOF.com](http://www.Vulcan-SOF.com).
- 9) Only SOSSEC members in good standing are eligible for awards under this Announcement. All non-SOSSEC members who submit under this announcement must become SOSSEC members prior to award. Project award(s) as a result of this Announcement will be in the form of Project Agreement (PA) between SOSSEC, Inc. and the selected SOSSEC Consortium Member (referred to as the Project Agreement Holder (PAH)) that incorporates the terms of any teaming agreement with the OT Lead, SOSSEC, Inc. (including flow-down articles from the OTA, [may be provided at respondents request]). OTA Articles to be included in any Project Award document (PA) between SOSSEC, Inc. and the selected SOSSEC Consortium member are not subject to revision/modification or deletion.

## **APPENDIX 004 – BASIS FOR EVALUATION**

The Government will be assessing the following during each Phase of the selection process. The Government will use all of the identified criteria in any phase of selection process.

### **A. Phase I – Proposal Lite**

The purpose of Proposal Lite is to evaluate proposed solutions against the below minimum criteria:

- Minimum hardware and ingest requirements are met from the Appendix 001.
- That proposed system/solution is able to scale to meet the needs identified in the Appendix 001.
- The proposed system/solution needs to be able to be built and deployed in under 2 days upon receipt of request, to include reconfiguration of the memory or storage and to tailor the system configuration based on mission requirements.
- Platforms shall be able to support tools using a variety of deployment methods using ansible templates and other containerized solutions.
- Identify Intellectual Property and licensing provisions.
- Proposal lite will include the data rights assertions for the vendor, the data rights of the Government and any Intellectual Property rights that pertain to the vendor
- Government requires Government Purpose Rights (GDP) for the GDPv4

Please be advised that a Proposal Lite that does not address all of the criteria identified will not be favorably considered for Phase II

### **B. Phase II– Demonstration/One-on-One Discussions and Proposal Lite**

The Government is seeking innovative approaches and solutions in addition to addressing identified requirements. To allow this innovation, which can vary significantly, Rodeo & One-on-One Discussions and Proposal Lite evaluations are highly subjective and evaluators have discretion to determine which proposed solution will best addresses the Statement of Objectives (Appendix 001) while considering possible innovative strategies. For example, understanding how a proposed solution will offer to solve a problem the Government may not be aware of will be highly considered in this phase. Proposed solutions will be evaluated against Appendix 001.

The Rough Order of Magnitude (ROM) from the Proposal Lite will be evaluated

against cost leading to phase III.

### **C. Phase III – Price Information**

The primary purpose of this Phase is to collect information in order to make a final down-select decision in Phase IV. Requests for pricing will include preparation instructions for Prototype Project Proposals. During this Phase, invited companies may collaboratively develop prototype project requirements with the Government teams for their specific projects and negotiate Terms and Conditions into their Agreements.

### **D. Phase IV – Final Down-Select**

Prototype project awards will be determined using the following criteria:

- Price
- Schedule
- Data Rights/Intellectual Property
- Innovation
- Availability of Funding