

MxD REQUEST FOR QUOTATION

Industrial Network Mapping and Modernization, Wi-Fi 21-36-02

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I. RECORD OF CHANGE

Revision	Date	Sections	Description
1.0	May 3 rd , 2022	N/A	Original

II. TIMELINE

Deadline for submissions to be received	May 26 th , 2022
Follow up clarification meetings as needed	Throughout the submission phase
Feedback to participants	By June 15, 2022

III. INTRODUCTION

MxD: The Digital Manufacturing Institute is where innovative manufacturers go to forge their futures. In partnership with the Department of Defense, MxD (also referred to as the Institute) equips U.S. factories with the digital tools and expertise they need to begin building every part better than the last. MxD's core mission is to transform American manufacturing, by fully integrating the digital thread across the manufacturing enterprise to reduce overall manufacturing costs, stabilize and grow the manufacturing industrial base and improve US competitiveness.

MxD has invested over \$120 million in more than 85 applied research and development projects in areas including design, product development, systems engineering, future factories, agile and resilient supply chains, and cybersecurity.

MxD operates from a nearly 75,000-square-foot innovation center near downtown Chicago. Its future factory floor features some of the most advanced manufacturing equipment in the world, which partners can use for experimentation and training on everything from augmented reality to advanced simulation techniques.

MxD is also the DoD's National Center for Cybersecurity in Manufacturing which focuses on three key areas. First, it uses its factory floor as a demonstration area for existing cybersecurity technology. Second, it works to develop new tools to address very specific pain points for manufacturers. And third, it is working with industry and government to figure out how to get these tools to small and medium-sized manufacturers. All MxD projects must take cybersecurity into consideration.

This RFQ is publicly available on the MxD website at https://mxdusa.org/projects/. This public posting represents the official notification of a request to submit the required documents. Amendments to an MxD RFQ may be used to extend due dates, clarify procedural requirements, or modify technical requirements. If an updated RFQ is issued, the previous RFQ will be rescinded. Those interested in responding to this RFQ should carefully monitor the MxD website after an original posting, up to the time of the quotation submission date. Any revisions, amendments or updates will appear in the same section of the website as the original solicitation. It is the responsibility of the respondents to monitor the MxD RFQ updates and ensure that their quotation meets the solicitation requirements.

The Respondent to an RFQ is the non-Federal organization that submits a quotation in response to the RFQ. The Respondent is considered the Prime contractor. Any other companies involved are considered Subcontractors typical of a Prime/Subcontractor relationship. All Subcontractors are subject to flow-down clauses in the Prime contract as required by all government stipulations.

Any questions regarding this solicitation must be provided to projects@mxdusa.org. The questions will be sent to the appropriate MxD point of contact, and answers will be published on the MxD website, if appropriate.

TECHNICAL SUMMARY



IV. TECHNICAL SUMMARY

OVERVIEW AND BACKGROUND

The overall objective of The Rock Island Arsenal Modernization Program is to assess, develop, pilot, and implement a common set of processes and tools to modernize legacy manufacturing and maintenance facilities using the Joint Manufacturing and Technology Center (JMTC) at Rock Island Arsenal (RIA) as a surrogate. This initiative will help improve U.S. manufacturing and maintenance organizations and the JMTC's ability to manufacture, maintain, repair, and overhaul various ground systems and their associated components in a more efficient, effective, and affordable way.

These projects are considered pilots with the potential for subsequent work expected not only at Rock Island Arsenal but also other Department of Defense (DoD) facilities.

The Industrial Network Mapping and Modernization, Wi-Fi (21-36-02) is one of several projects that comprise this RIA-JMTC modernization program.

PROBLEM STATEMENT

As part of the Army's Organic Industrial Base (OIB), the Rock Island Arsenal (RIA) Joint Manufacturing and Technology Center (JMTC) exists to maintain unit readiness across the force and give the Army the ability to surge in support of contingencies. The arsenal's manufacturing machines are connected on a single, air gapped network called the Industrial Control Network (ICN). The lack of internet connection and the fact that each machine is connected to the network differently presents several challenges for data collection. To support modernization of the network MxD is working to document the current state of the network and add wireless connectivity to support future capability.

OBJECTIVES

The objective of this project is to give RIA-JMTC a complete understanding of their manufacturing network to enable data capture and modernization efforts. RIA, like any manufacturer, knows what machines are within the facility, but by capturing how those machines are connected to the network and what data they can transmit they can transform the way they do business.

At the same time, Wi-Fi capability will be installed to enable future data capture capabilities across the factory floor.

The following sections highlight the minimum requirements proposed by MxD to meet the objectives of the project. However, MxD is open to receiving an expanded proposal with additional inputs if they are relevant to supporting the objectives while meeting budget and time constraints.

To support the key objectives of this project the proposal should try to prioritize the use of Commercial Off the Shelf (COTS) solutions where possible.

Machine information will include:

- Make, Model, and Serial Number
- Network port connection
- Communication protocol (Ethernet, serial, etc.)
- Any additional machine communication ports available
- Machine data generation capability including description, type, and format

TECHNICAL REQUIREMENTS

1. ICN Network Mapping

The contractor will conduct a full network map of RIA's ICN. The network map will include machine information and PC information. For quoting purposes, the ICN is estimated to have 200 to 250 machines/ports in the RIA-JMTC facility

- Contractor shall document a network map of the ICN
- Contractor shall document all machines on the RIA ICN including, but not limited to, CNCs, CMMs, servers, and PCs
- Portable machines shall be listed on the currently used port
- Portable machines shall be listed with a notation of portability
- The network map shall include open or unused ports
- The network map shall include machine information as defined above
- The network map file and application should be chosen such that RIA can easily edit the map to incorporate future changes

2. Wi-Fi Installation

The contractor will install approved Wi-Fi access points (Aruba Networks hardware or similar) to provide coverage around the specified Computer Numerical Control (CNC) machine area within the RIA-JMTC.

- Contractor shall install a system that adds wireless capability to the RIA ICN
- Installation is to include mounting hardware, Power over Ethernet (POE), ethernet cable and routing, switch hookup, IT configuration, and lift equipment where needed
- The system shall provide wireless coverage for at least 10,000 square feet
- Contractor shall perform an RF coverage analysis to determine optimum antenna coverage
- RF coverage must include areas around and inside large CNC machines, such as bridge mills
- The system shall consist of hardware that has been preapproved by US Army Tank-Automotive & Armaments Command (TACOM), such as Aruba Networks wireless

3. Training

The contractor will provide training to RIA personnel on how to configure, use, and maintain system hardware and software.

- Contractor shall hold network configuration training at RIA-JMTC for IT personnel
- Training shall include how to add new access points in the future
- Contractor shall provide training for Rock Island personnel on how to maintain and modify/update the network map
- Contractor shall submit a training manual(s) which documents above training

4. Cybersecurity Considerations and Requirements

- Contractor must abide by security requirements outlined in National Institute of Standards and Technology (NIST) 800 SP-53 and NIST 800 SP-82 R2
- Only preapproved hardware and software components are permitted
- There are Security Technical Implementation Guides (STIGs) for the implementation/ configuration of preapproved hardware and software components. The STIGs and

approved components can be found here: <u>STIGs Document Library – DoD Cyber</u> Exchange

- The allowed networking protocols, ports, etc. for both enterprise and Industrial networks can be found here: Enterprise Connections PPSM DoD Cyber Exchange
- If no STIG exists for a particular component, please consult: <u>STIGs Frequently</u> Asked Questions – DoD Cyber Exchange

A response to this RFQ must have a detailed, itemized breakdown of the minimum requirements outlined above and any additional inputs if they are relevant to supporting the objectives.

SCOPE OF WORK

Period of Performance: 3 months

Estimated start date: 08/01/2022

The proposal shall include a Gantt chart detailing tasks and milestones required to achieve the project outcome.

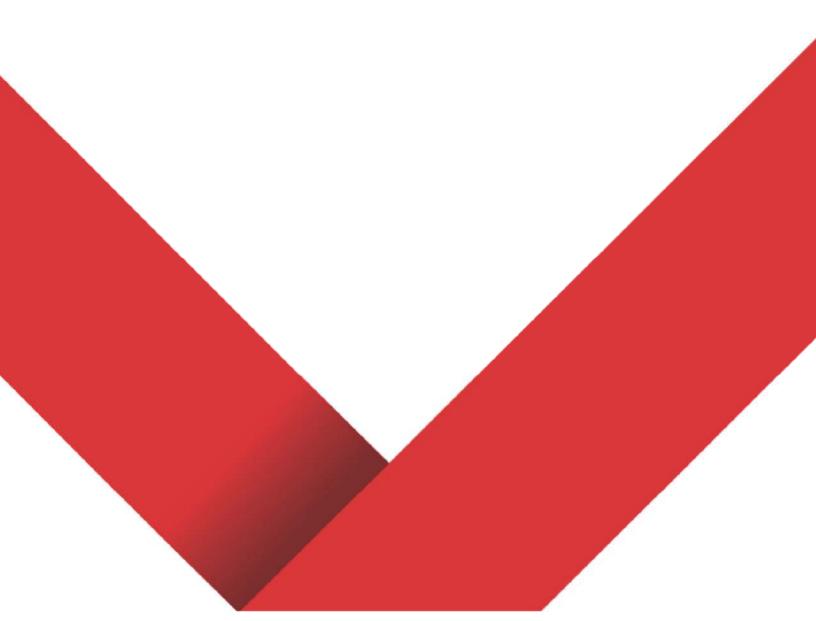
A line-item breakdown of costs must be included in the proposal. Costs should be reasonable relative to current market rates and must adhere to any federal government guidelines. Costs that will continue after the end of the PoP, such as software as a service cost, must be noted in the proposal.

All hardware and software installed during the scope of this project are to be tested and demonstrated to MxD and RIA personnel during commissioning.

Table 1: Technical Deliverables

Deliverable	Due
Network Map	Month 1
System architecture and implementation plans	Month 1
Equipment identification and procurement plan	Month 1
Hardware Bill of Material (BOM)	Month 1
Software BOM	Month 1
User guides and maintenance manuals for all hardware and software installed	Month 1
RIA Implementation	Month 2
Wi-Fi Signal Strength Coverage Test Report	Month 3
RIA Training	Month 3

PROGRAM OVERVIEW



V. PROGRAM REQUIREMENTS

PROGRAM MANAGEMENT

The selected Respondent will be awarded a contract as the Awardee. The Awardee is responsible for managing the project to ensure the team meets all the technical objectives and requirements as contracted based on the quotation. The Awardee will coordinate with the MxD point of contact (POC) for reporting purposes and for coordinating the integration at RIA-JMTC. The MxD POC will monitor technical performance and project costs relative to the associated contract. The Awardee will submit the reports listed below in Table 2 to their MxD POC to fulfill their reporting requirements. These reports will be accessed by the MxD Director of R&D Projects, MxD Director of Engineering, RIA-JMTC, the MxD POC and other authorized staff members in the course of their official duties.

PROJECT REQUIREMENTS

All proposals must include a requirements verification cross reference matrix (VCRM). VCRM will include how the technical requirements will be verified (Analysis, Inspection, Demonstration, or Test) and when the requirements will be verified.

REPORTING

The contractor is required to submit a weekly project status report which includes progress towards deliverables, including schedule and budget updates.

The contractor is required to submit a test results report for any performance tests listed above at the completion of testing.

The contractor is required to submit a final project report which summarizes the scope of the project, accomplishments, challenges, and lessons learned. The final report shall also incorporate any/all test reports and a time-based summary of expenditures and milestones completion.

Table 2: Program Deliverables

Deliverable	Description	Due	
Program Review	Summary of progress towards of objectives and deliverables.	Weekly	
VCRM	Summary of how all requirements will be verified, when, and by who	30 days after contract award	
Technical Documents and Test Reports	Per Technical Deliverables	Per Technical Deliverables	
Final Report	Summary of the project to include accomplishments, challenges, and lessons learned	End of PoP	
Safety Accident/Incident Report	Participants must report any major accident/incident (including fire) resulting in any one or more of the following situations: one or more fatalities or one or more disabling injuries; damage of Government property exceeding \$10,000; impact to Project planning or production schedules or degradation of the safety of equipment under contract. Such report will also identify potential hazards requiring corrective action.	Immediately on Occurrence	
Government Required Documentation Additional reporting based on government contractual requirements.		As Needed	

PERIOD OF PERFORMANCE REQUIREMENTS

Estimated period of performance is **3 months** from contract award. MxD and RIA-JMTC are flexible on implementation time dependent on objectives quoted. However, there is no increase in funding beyond what was agreed to per contract.

TRAVEL, FACILITY ACCESS AND INSURANCE REQUIREMENTS

The RIA-JMTC is located in Rock Island, IL. All travel requirements and associated costs needed for execution of the objectives and deliverables must be included in the quotation. There is no increase in funding should additional travel be required to fulfill the agreed upon requirements. Proposals must include an estimate for required travel to RIA to perform all work as defined above.

Awardee and/or its authorized subcontractor(s) will need to access the RIA-JMTC facility to perform the necessary onsite installation work as outlined in this RFQ. Awardee and / or its authorized subcontractor(s) must meet any terms and conditions for access as set forth by RIA-JMTC.

OWNERSHIP OF DELIVERABLES AND INTELLECTUAL PROPERTY

The contract will be a work for hire relationship. It is expected that the solution to meet the objectives will be a commercially available solution. Any existing, background intellectual property (IP) remains the property of the IP owner. Ownership and other rights in new IP produced as a result of the work performed under this contract will be determined at the time of contracting.

FUNDING REQUIREMENTS

MxD will award a contract type resulting from this RFQ that is most appropriate to the specific procurement and selected Awardee. MxD reserves the right to fund all, some, or none of the quotations received under issued RFQs. Final award amounts will be determined accordingly based on quotations received, subsequent evaluations, and final agreement between MxD and the Awardee.

Cost share is not required for this contract. However, cost share is encouraged to support the Institute's mission.

MxD recognizes the difficulty in completing a final, fixed-price quotation without additional information or site visits for certain projects. Therefore, **clearly document and explain all assumptions used to generate the quotation**.

If down selected, the Respondent will have the opportunity to gather additional details and revise the quotation. The Respondent must then submit substantiating documentation for costs (including any cost share). MxD will complete a comprehensive cost analysis (including cost reasonableness and cost realism) prior to contract award.

Neither MxD nor the U.S. Government has any responsibility for costs associated with development, submissions, or pre-award negotiations for this quotation and subsequent contract.

VI. ELIGIBILITY

MxD Membership

This RFQ is open to the public; any organizations regardless of membership status may submit a quotation in response to this RFQ. **Membership in MxD** is not required to be awarded a contract as a result of this RFQ.

If a Respondent or Awardee wishes to promote their affiliation with MxD as a result of this RFQ or subsequent award, MxD membership is required. This can include participation in workshops, social media promotion, and networking with other members. MxD membership does not grant rights to publish association with the project. Publication of association with the project will be subject to terms to be determined at the time of contracting.

Any Respondents who are non-MxD members are encouraged to review the Membership Agreement prior to submission and to direct questions to MxD's Director of Business Development, Tony Papke (tony.papke@mxdusa.org). For more information on how to become a MxD Member, please visit the MxD Membership page on our website.

Federally Funded Research and Development Centers (FFRDCs) and Government entities (Government/National laboratories, military educational institutions, etc.) are subject to applicable direct competition limitations and cannot propose to RFQs in any capacity unless they address the following conditions:

- FFRDCs or Government entities may not exclusively respond to this RFQ.
- FFRDCs must clearly demonstrate that the proposed work is not otherwise available from
 the private sector and must also provide a letter on letterhead from their sponsoring
 organization citing the specific authority establishing their eligibility to compete with
 industry and propose to solicitations utilizing Government funding.

Government entities must clearly demonstrate that the work is not otherwise available
from the private sector and provide written documentation citing the specific statutory
authority, as well as, where relevant, contractual authority, establishing their ability to
propose to solicitations utilizing government funding.

Government agencies interested in participating in MxD RFQs as a respondent or subcontractor should notify MxD in advance of the RFQ submission. For RFQs utilizing federal funding, special agreements and considerations may need to be implemented to enable participation.

NOTIFICATION OF PARTICIPATION BY NON-U.S. CITIZENS

Award shall be granted only to U.S. companies, firms, organizations, institutions, or other entities organized or existing under the laws of the United States, its territories, or possessions (as defined in Section 120.15 of International Traffic in Arms Regulations, 22 CFR § 120 et. seq. ("ITAR")).

It is a requirement that work related to the Award must be completed in the U.S. by people legally authorized to work in the U.S. All proposed participation by non-U.S. Citizens must be disclosed to MxD on Attachment 1 Non-U.S. Citizens at least 60 days prior to proposed participation. Written approval of non-U.S. Citizens must be received by the Awardee from MxD prior to commencing work.

VII. QUOTATION EVALUATION

EVALUATION PROCESS

An MxD Evaluation Board (EB) will review and evaluate each submitted quotation utilizing the evaluation criteria specified in the following section.

The EB may consist of recognized experts from industry and academia and key government stakeholder representatives (when appropriate). MxD representatives, such as the Director of R&D Projects, Director or Engineering, MxD POC, may participate in and lead EB meetings. All members of the EB will need to meet strict standards of personal and organizational conflict of interest. The evaluators may be supported by subject matter experts to review and comment upon the proposed work.

Through its deliberations, the EB will determine "selectability" of each quotation. Selectability determination incorporates average EB judgement of objective compliance, budget availability, and overall perceived value. The EB will identify a list of quotations that are "selectable for negotiation" to the MxD POC. The Director of R&D Projects and the Director of Engineering, with the consultation of MxD POC, will determine which subset of the proposed quotations deemed "selectable for negotiation" will be down selected for negotiations. This determination will take into account the EB's recommendation, funding availability, alignment with MxD's mission and strategic goals as well as external stakeholder requirements (when applicable).

EVALUATION CRITERIA

Each quotation is evaluated by a specific set of criteria. Below are the quotation evaluation criteria for this RFO:

Quotation Evaluation Criteria

Requirements Compliance

- Quoted solution clearly addresses all mandatory objectives identified in RFQ
- Clear identification of assumptions, risks, and mitigations
- Complete and clear itemization of all requirements
- Program management plan meets requirements in the RFQ

Respondent Qualifications

- Respondent and any proposed subcontractors highly qualified to accomplish objectives with clear delineation of roles and responsibilities
- Respondent and any subcontractors have unique capabilities that are directly associated with the target technology

Cost Factors

- Quoted costs are reasonable and realistic for the proposed work effort
- Quoted costs are competitive relative to other commercial offerings
- Value is maximized through inclusion of optional cost share and objectives

VIII. PROJECT AWARDS

CONTRACT

The award of this contract will be subject to the requirements of the Collaboration Agreement between National Center for Manufacturing Sciences and MxD. All contractual negotiations related to RFQs will be executed by MxD. Funds will be distributed to the Awardee selected through the evaluation/selection process utilizing a contract appropriate to the procurement.

FINAL REVISIONS

MxD reserves the right to negotiate the cost and scope of the proposed work with a Respondent that has been down selected prior to award. MxD will facilitate the creation of a Statement of Work with the Respondent including technical scope modifications and program management aspects. The Respondent and subcontractors, if any, who intend to pursue selection are required to participate in the revision process prior to award. For example, MxD may request that the organizations revise the quotation to better align to RFQ requirements.

SUBMISSION DETAILS

Each Respondent must submit their quotation (including Attachment 1) no later than 5:00PM Central Time, **May 26**th, 2022. All submissions must be made electronically to projects@mxdusa.org. Please include the RFQ designation: "21-36-02 Industrial Network Mapping and Modernization, Wi-Fi Quotation Respondent/Company" for the file name and in the subject line of the email.

IX. REFERENCES AND ACRONYMS

Table 3: References

Document Title	Document Number
US Code of Federal Regulation	N/A

Table 4: Acronyms

BOM Bill of Materials CNC Computer Numerical Control COTS Commercial Off the Shelf DoD Department of Defense EB Evaluation Board FFRDC Federally Funded Research and Development Center ICN Industrial Control Network IP Intellectual Property ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command VCRM Verification Cross Reference Matrix	Tuble 4: Actoryme			
COTS Commercial Off the Shelf DoD Department of Defense EB Evaluation Board FFRDC Federally Funded Research and Development Center ICN Industrial Control Network IP Intellectual Property ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	BOM	Bill of Materials		
DoD Department of Defense EB Evaluation Board FFRDC Federally Funded Research and Development Center ICN Industrial Control Network IP Intellectual Property ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	CNC	Computer Numerical Control		
EB Evaluation Board FFRDC Federally Funded Research and Development Center ICN Industrial Control Network IP Intellectual Property ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	COTS	Commercial Off the Shelf		
FFRDC Federally Funded Research and Development Center ICN Industrial Control Network IP Intellectual Property ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	DoD	Department of Defense		
ICN Industrial Control Network IP Intellectual Property ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	EB	Evaluation Board		
IP Intellectual Property ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	FFRDC	Federally Funded Research and Development Center		
ITAR International Traffic in Arms Regulations JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	ICN	Industrial Control Network		
JMTC Joint Manufacturing and Technology Center MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	IP	Intellectual Property		
MHD Machine Health Dashboard NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	ITAR	International Traffic in Arms Regulations		
NIST National Institute of Standards and Technology OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	JMTC	Joint Manufacturing and Technology Center		
OIB Organic Industrial Base PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	MHD	Machine Health Dashboard		
PoC Point of Contact POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	NIST	National Institute of Standards and Technology		
POE Power Over Ethernet PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	OIB	Organic Industrial Base		
PoP Period of Performance RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	PoC	Point of Contact		
RFQ Request for Quote RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	POE	Power Over Ethernet		
RIA Rock Island Arsenal STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	PoP	Period of Performance		
STIG Security Technical Implementation Guide TACOM US Army Tank-Automotive & Armaments Command	RFQ	Request for Quote		
TACOM US Army Tank-Automotive & Armaments Command	RIA	Rock Island Arsenal		
	STIG	Security Technical Implementation Guide		
VCRM Verification Cross Reference Matrix	TACOM	US Army Tank-Automotive & Armaments Command		
	VCRM	VCRM Verification Cross Reference Matrix		

Attachment 1

Certification of Non-U.S. Citizens

 There is NO participation by Non-U.S. Citizens proposed for this effort				
 The following Non-U.S. Citizen(s) are participating in this effort:				

Non-U.S. Citizen Name, Contact Info	Country of Citizenship	Primary Employment Location	Employer	US Work Authorization (Visa, Green Card, Etc)	Justification*

^{*}The Justification section should clearly outline the rationale behind the individual's request for participation, the type of data they will have access to, and other pertinent information regarding their skill set/expertise.