



Request for Information (RFI) - Installation Operations Tool (IOT)

RFI #001A

Addendum A

1) Purpose

This addendum to the ‘Installation Operations Tool (IOT)’ RFI #001A is being released to provide additional context to industry about the broader Installation Operations Tool (IOT) project motivating the RFI. There are two sub-objectives of sharing this additional context, being

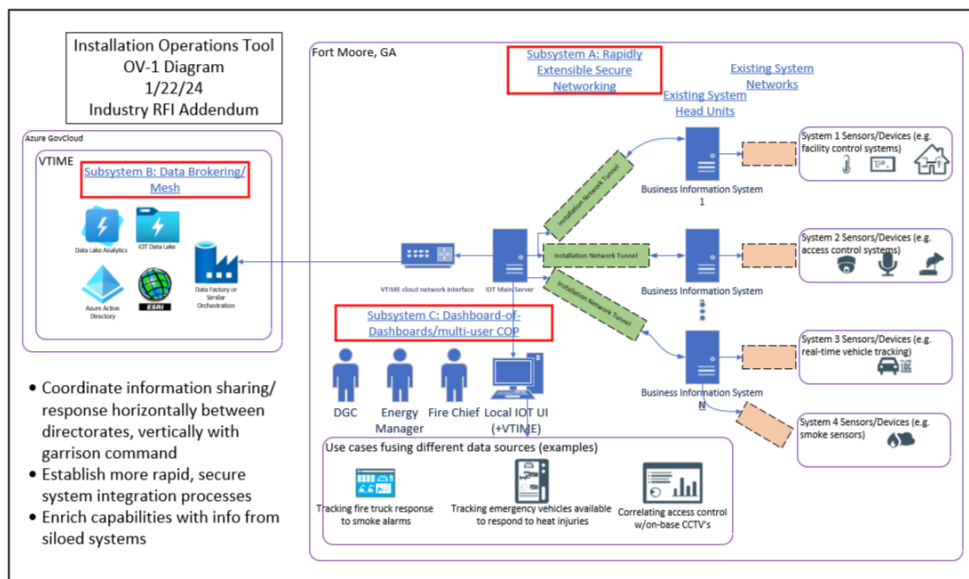
- Providing bounds/framing of the expected scope and scale of the capability development anticipated following the RFI.
- Providing industry early understanding of the prior due diligence they will be able to expect to have taken place prior to an IOT solicitation being concluded.

2) Disclaimer

The objective of this RFI is to inform the feasibility, requirements, and optimal scope and acquisition approach for an Installation Operations Tool (IOT) capability. As such, the contents of the original RFI ‘Installation Operations Tool Requirement and Anticipated Solution Overview’ section, along with the materials below, represent US Ignite’s expectation for the project and capability. However, both the project and capability requirements may change as a result of the process, and US Ignite does not guarantee any project or capability details to be part of any subsequent solicitations.

3) Project Overview Diagram

Below is a version of the capability overview (OV-1) diagram for the IOT capability, modified to articulate how each of the major subsystems are anticipated to support the total capability.





4) Project Scope, Schedule

Below is a modified version of the statement of need for US Ignite’s Installation Operations Tool project, followed by an outline of the major project milestones and associated activities.

Summary of Need

The objective of this project is the implementation and study of a standardized data integration and system-of-systems dashboard platform at Fort Moore using an open architecture, cybersecure government or commercially available technology to support installation operations and enable addition of sensors and systems in an agile, adaptive approach. Sub-objectives of this task include preliminary network and hardware configurations to support near-real-time data flows from various sensors or systems at the installation to the dashboard platform, configuring bi-directional data flows with the Virtual Toolbox for Installation Mission Effectiveness, and creation of integrated analytics and visualizations for live and stored data on the platform. The result will be an initial implementation of an extensible, flexible system-of-systems for integrated data from existing and emerging installation systems, to include non-garrison installation assets.

While RMF considerations and readiness to work with existing systems in installation networks are paramount, this limited installation operations tool will be delivered to a research network accessible to installation stakeholders and leverage accessible data, sensors and systems most ready for integration.

Project Milestones/Major Activities

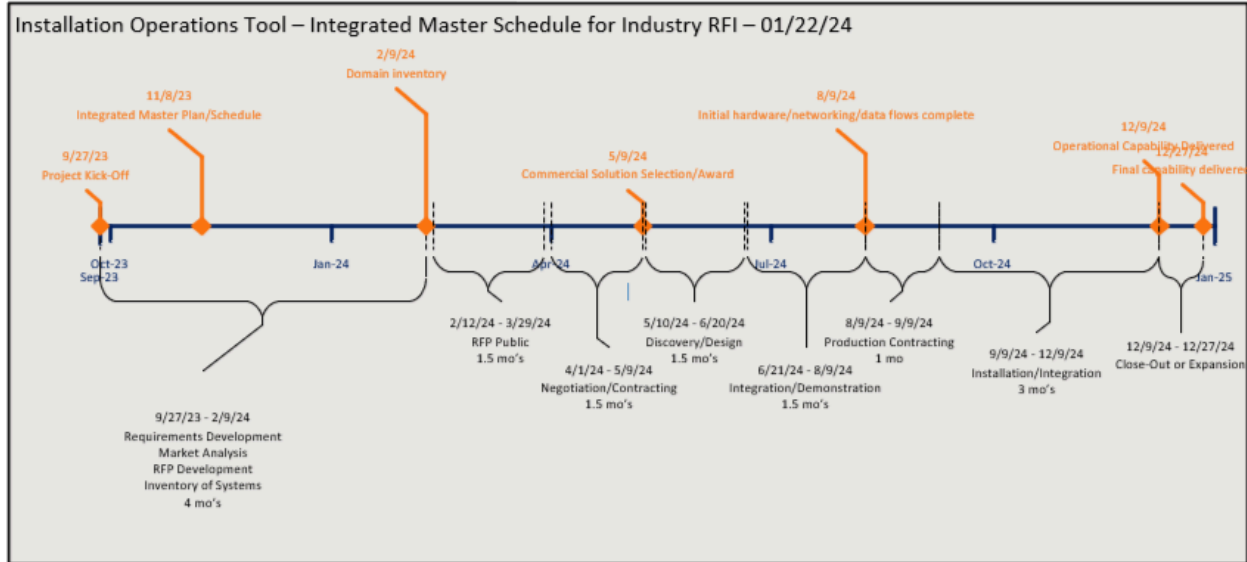
Below is a table outlining the milestones and anticipated schedule for US Ignite’s IOT project, under which a procurement may be made by US Ignite following the conclusion of this RFI.

Installation Operations Tool (IOT) Milestones/Schedule	
Activity/Milestone	Date
Integrated Master Plan/Schedule Delivery	8NOV23
Inventory of FMGA use cases, information systems, networks, data assets	9FEB24
Select commercially available solution, document analysis of alternatives	9MAY24
Complete initial configuration of local hardware, networking, data flows	9AUG24
Initial operating capability	9DEC24
Deliver final version, hardware, documentation, source code w/live demonstration	27DEC24 (or later)



Integrated Master Plan/Schedule Delivery

Below is a schedule overview for the Installation Operations Tool project, the sections of which correspond to the sections below.



Inventory of FMGA use cases, information systems, networks, data assets (domain inventory)

- US Ignite, in coordination with the FMGA CIO and ERDC, is currently interviewing FMGA garrison directorates to inventory the use cases they'd have for an Installation Operations Tool.
- In addition to these use cases, US Ignite is taking as comprehensive as feasible an inventory of the information systems necessary to support those use cases, including; what network they're on; what the data model for required info is; what the security accreditation is; what system interfaces would be available to the IOT project.
- Collectively, this use case, information system, network, data model, and access inventory is being referred to as a 'domain inventory', akin to a partial, pre-solution Concept of Operations or CONOPS.
- By the time an IOT vendor or vendor(s) are brought on through a procurement following this RFI, US Ignite anticipates the below level of completion of this inventory:
 - Use cases: preliminarily defined, and prioritized according to both technical feasibility and business value
 - Information systems and associated networks/data models/interfaces
 - Given the breadth of enterprise and FMGA-specific systems involved, this inventory won't be 100% complete by this time.
 - Priority will be given to non-enterprise, non-ATO'ed systems at FMGA that are controlled by US Ignite or their partners, to ensure there are systems with sufficient understanding and access to integrate within the time available to support the scheduled demonstration.



Select commercially available solution, document analysis of alternatives

- US Ignite anticipates competitively sourcing one or more Installation Operations Tool vendor(s) through a forthcoming solicitation.
- The scope, scale, and structure of this forthcoming solicitation are being informed by responses received to this RFI.
- This solicitation is anticipated to be for a 2-phase award with one or more IOT vendor(s), corresponding to the two sections below.

Complete initial configuration of local hardware, networking, data flows

- The objective of the first phase of the project will be to demonstrate a functional, lightweight configuration of the IOT, providing value to Fort Moore while integrating over a research network with US Ignite-controlled assets.
- Determination will be made in advance of releasing a subsequent solicitation whether this phase may have only 1, or more than 1 IOT vendor(s), either competitively or collaboratively.
- Once an award has been executed with an IOT vendor(s), their first phase is anticipated to have 5 major tasks, below:
 - Discovery - There are two levels of discovery expected to be required at this time, below:
 - Project discovery: basic orientation with project, scope, schedule, stakeholders.
 - Technical discovery: further investigation/due diligence into target information systems to integrate, and associated network resources available.
 - Design - Two designs will be assembled
 - A critical design of the demonstration configuration of the IOT, on a research network integrating with minimally US Ignite-controlled assets
 - A preliminary design for a production configuration of the IOT
 - Integration - perform the hardware deployment, software configuration, and system integration necessary for the demonstration configuration
 - Demonstration - live demonstration of a workflow supporting a Fort Moore business process using the IOT tool, potentially as part of a major Army installations community event.
 - Phase 2 Proposal Development - A refined scope of work for phase 2 (described below) will be provided by the IOT vendor(s), either with the intent of securing authorization to proceed to phase 2 or as part of a competitive down-selection process.

Initial operating capability

- The specific scope of this phase 2 will be defined by the proposal developed by the IOT vendor(s) as part of phase 1, within a set of parameters for scope, schedule, and budget that are expected to be defined within the initial solicitation.
- In its end-state, the solution is expected to require ATO in order to be deployed on an operational DoDIN network and integrate with existing, authorized information systems. However, it is yet to be determined whether (a) this phase 2 is expected to require scope



for obtaining ATO(b) if it will require integration into more non-ATO'ed systems controlled by US Ignite, or (c) if that decision will be left to be made as part of the phase 2 proposal.

Deliver final version, hardware, documentation, source code w/live demonstration

- The phase 2 IOT vendor will be required to deliver documentation on the final configuration of the IOT capability.
- The disposition plan for the final version has not yet been determined. It may be determined prior to releasing the initial IOT solicitation, it may be determined as part of the phase 2 proposal, or at the end of the phase 2 period of performance.
- Similarly, it has yet to be determined whether phase 2 will be restricted to ending 27DEC, whether the restricted end date may move prior to solicitation release, or whether an option may be made available.