



Request for Quotation (RFQ) #00A3

Military Installation Building Occupancy Data

Issue Date: May 1, 2023

1. Introduction

US Ignite, Inc. (“US Ignite”) is seeking quotations from vendors to provide occupancy data on commercial and military facilities on Fort Benning sourced from mobile location data aggregators. The objective of procuring this data is to help installations realize energy cost savings by identifying opportunities to conserve energy when facilities show patterns of underutilization.

This pilot project falls under the Fort Benning Smart Installation and Community Dashboard (SICD) Program being managed by US Ignite, which is associated with the Installations of the Future (IoTF) program managed on behalf of the Assistant Secretary of the Army for Installations, Energy and Environment. The pilot project and the IoTF program are part of a broader effort to develop a Common Operating Picture for Garrison Commands across the Army enterprise, and if successful, the project has the opportunity to be scaled across to additional locations on Fort Benning and other Army installations.

2. US Ignite, Fort Benning and SICD Program Overview

2.1. US Ignite overview

US Ignite is a national nonprofit, a 501(c)(3), that is accelerating the smart city movement – and creating value for an entire ecosystem – by guiding communities into the connected future, creating a path for private sector growth, and advancing technology research that’s at the heart of smart city development.

Why is this important? Because local governments need to improve the quality of life and ensure economic development in their communities, particularly during a time of rapid technological change. Businesses recognize the importance of the emerging market around smart communities and need to find commercial strategies that are repeatable, scalable, and sustainable. And foundations and federal agencies need to channel their institutional aims into efforts ranging from cutting-edge research to practical economic development initiatives that deliver measurable benefits.

As a trusted partner, US Ignite brings this entire smart city ecosystem together, successfully pairing financial investment with technical and organizational expertise. Through the public-private partnership programs we run, US Ignite is a catalyst for communications network advancement, and for innovation in smart city services that are powered by a new generation of technologies. You can read more about US Ignite programs on its [website](#).



2.2. Fort Benning overview

Fort Benning is a United States Army base located one (1) mile south of Columbus, GA and one hundred (100) miles southwest of Atlanta, GA. Fort Benning is home for the Maneuver Center of Excellence and its mission is to train and equip combat-ready soldiers and leaders; develop doctrine and capabilities for the maneuver force and provide a first-class quality of life for its service members, civilians, and families to ensure our Army's maneuver force is ready now and in the future.

Fort Benning Facts:

1. Military assigned to Fort Benning - 27,436
2. 14,146 soldier and their families live off-base
3. Fort Benning covers 284 square miles
4. Fort Benning is the fifth largest military base

2.3. Fort Benning Smart Installation and Community Dashboard (SICD) Program Overview

The 2020 Army Installation Strategy (AIS) identifies a key feature of the operational environment as the accelerating rate of technological change. Future Soldiers will expect installations to modernize at pace with civilian sector smart cities initiatives. The challenge for the Department of Defense and the Army is establishing the necessary conditions to ensure safe, secure, and connected data-driven decisions for reducing costs and improving the environment, quality of life, security, and mission readiness.

Fort Benning has a broad interest in understanding automated systems to plan for a range of areas related to modernization, readiness, and quality of life. Efforts within this scope of work are sponsored by the Assistant Secretary of the Army (Acquisition, Logistics and Technology) with congressional appropriations for SCID. SICD is managed by Army Corps of Engineers, Engineering Research and Development Center (USACE-ERDC), and leverages support from the Assistant Secretary of the Army (Installations, Energy, and Environment) and their Installations of the Future program. The expected outcome of this research project is the development and demonstration of a smart installation and community pilot system for Fort Benning. This project will incorporate smart and automated technologies coupled with data analytics, data fusion, and artificial intelligence to provide faster awareness and decision options for Fort Benning staff with a framework that can be scalable to other installations.

3. Military Installation Building Occupancy Data Description

US Ignite, in partnership with Fort Benning and the US Army Engineer Research and Development Center (ERDC), is seeking to procure occupancy data on commercial and military facilities on Fort Benning sourced from mobile location data aggregators.

3.1 Building Occupancy Data Requirements

3.1.1 Source

Building occupancy data must be sourced from location service-enabled devices, which may include cell phones, tablets, credit card transactions, vehicles or similar devices. Data from other sources such as IoT



networks may be included if these data already exist and do not need to be installed to support this pilot. If the data is sourced from an alternative legitimate source, please describe the source of the data and average data pulls per day for the United States

3.1.2 Data Acquisition Approach

Building occupancy data must be made available for programmatic or automated querying through an HTTPS API service or comparable encrypted transfer protocol. US Ignite will provide boundary polygons in geoJSON or similar spatial data structures for all facilities of interest to the successful vendor. The API service must then return building occupancy data for each of those polygons. This data may be returned either synchronously or asynchronously.

3.1.3 Request Frequency

The API service must be capable of being queried on a weekly basis over the period of one calendar year, plus one initial batch of request for a historic data push for the past 12 Months worth of data. This will total 53 requests, or if more than one request is necessary for the total number of facilities requested, the total number of requests made will be $\Sigma requests = 53 * n$ where n is the number of requests necessary to cover the number of facilities requested.

3.1.4 Temporal Detail

The API service must return occupancy per building for each hour in day over a requested time period. The API service must be capable of supporting one initial request or set of requests for data for the calendar year prior to the date of contract execution. The vendor must be capable of providing the API supporting weekly queries for hourly occupancy data over the previous week after the initial year of the contract execution.

3.1.5 Location of Interest

The location of interest will be the main cantonment area of Fort Benning in Columbus, GA. The data pulls from specific devices shall be bound to the size of individual buildings that shall be no lower than 2000 Sqft and no larger than 1 Sqkm. A geometry file of the buildings of interest will be provided to the successful vendor upon contract execution.

3.1.6 Number of Buildings and Building Details

The vendor to provide two pricing options for the below subset buildings of interest:

Option 1 – Set of 100 Buildings per week through one or more API requests.

Option 2 - Set of 1400 Buildings per week through one or more API requests.

These buildings will be no smaller than 2000 square feet, and no larger than 1 square kilometer.

3.1.7 Data Security and Privacy

The service provider must provide US Ignite with unique access credentials in a secure manner to prevent inadvertent leakages of facility occupancy data. Facility boundaries shared with successful vendor must be stored in a secure manner, and they must only be used to produce the occupancy data to be returned to US



Ignite. The occupancy data must be in the format of aggregate counts of occupancy or visitation per facility and must not include device-level information or personally identifiable information (PII).

If the vendor agrees to enter into a Non-Disclosure Agreement (NDA) for data sharing with US Ignite, we can share the polygon geometries to ensure that sufficient data is being captured for the region of interest.

4. Administrative Information

4.1 Solicitation Timeline

Table 1: Solicitation Timeline	
Date	Deadline
05/01/23	RFQ Release
05/10/23	Questions Due
05/17/23	US Ignite Responses to Questions Due
05/24/23	Offers Due
06/11/23	Purchase Order Execution

4.2 Questions and Answers

All clarification questions must be submitted **by May 10, 2023, no later than 8:00 PM Eastern Daylight Time (EDT)**.

All requests, questions, or other communications about this RFQ shall be made in writing to sayed.elhamz@us-ignite.org. Communications made to other US Ignite personnel or attempts to ask questions by phone or in person will not be allowed or recognized as valid and may disqualify the supplier. Suppliers should only rely on written statements issued by the RFP coordinator.

US Ignite will endeavor to respond to all parties no later than **May 17, 2023, 8:00 PM EDT**.

4.3 Offer Submission

Submit an offer by May 24, no later than 8:00 PM EDT. Offers should be submitted via email to sayed.elhamz@us-ignite.org. Your offer must include:



- a. The RFQ reference number.
- b. The name and title, address, email, phone number of the Bidder.
- c. A detailed technical description /specification of the items being offered in sufficient detail to evaluate compliance with the requirements in the Solicitation. This may include a sample dataset, data dictionary, API documentation, product literature, or other documents, if necessary.
- d. Terms of any offer related warranty.
- e. Provide full, accurate and complete information as required by this solicitation and its attachments.
- f. Provide bill of quantities using the following table:

Table 3: BOQ					
Line Item	Description	Quantity requested	Unit	Unit Price	Total Price
Building Occupancy Data API Query/Data Offload for 12 Months Historic data	Building Occupancy Data subject to the requirements defined in section 3.1	One data dump or broken-down API Queries for 12 Months Historic data	Data Offload (One Time)		
Building Occupancy Data API Query	Building Occupancy Data subject to the requirements defined in section 3.1	<p>Option 1</p> <p>53 * number of requests to cover 100 facilities</p> <p>E.g., if each request supports 100 facilities, the quantity requested would be 53 * (100/100) = 53*1=53</p> <p>Option 2</p> <p>53 * number of requests to cover 1400 facilities</p>	Each Request		



		E.g., if each request supports 100 facilities, the quantity requested would be 53 * (1400/100) = 53*14=742			
--	--	--	--	--	--

4.4 Payment Terms

- i. US Ignite intends to award a purchase order or contract as a result of this RFQ with payment terms being net 30 days from delivery and acceptance of the goods/services ordered at the location specified or deliverables met.
- ii. Payment will only be issued to the entity submitting the offer in response to this RFQ and identified in the resulting Purchase Order/Contract; payment will not be issued to a third party.

5. RFQ Terms and Conditions

1. **Right to Select/Reject:** US Ignite reserves the right to select and negotiate with those firms it determines, in its sole discretion, to be qualified for competitive proposals and to terminate negotiations without incurring any liability. US Ignite also reserves the right to reject any or all proposals received without explanation.
2. **Reserved Rights:** All RFQ responses become the property of US Ignite and US Ignite reserves the right in its sole discretion to:
 - a. To disqualify any offer based on Bidder’s failure to follow solicitation instructions.
 - b. To waive any deviations by Bidder from the requirements of this solicitation that in US Ignite opinion are considered not to be material defects requiring rejection or disqualification; or where such a waiver will promote increased competition.
 - c. Extend the time for submission of all RFQ responses after notification to all Bidders.
 - d. Terminate or modify the RFQ process at any time and re-issue the RFQ to whomever US Ignite deems appropriate.
 - e. Issue an award based on the initial evaluation of offers without discussion.
 - f. Award only part of the activities in the solicitation or issue multiple awards based on solicitation activities.
3. **Quotation Validity:** Quotations should be valid for 60 working days