MAIAR

MISSION ADVANTAGE, INTELLIGENCE ANALYSIS, RESEARCH

G-Cloud 15

URSA Space-Based Intelligence Service

Service Definition

Conditions of Supply

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1 Service Description

Through our partnership with URSA Space, MAIAR Limited has experience of the full range of URSA products and services. MAIAR Limited can provide a commercial Intelligence as a Service (IaaS) output that uses the full range of URSA products, services and analytic partners. When combined with MAIAR's in-depth intelligence subject matter expertise, this can deliver processed information and intelligence product reporting to the customer.

URSA Space provides a satellite intelligence infrastructure, that at its heart is powered by a growing catalogue of over eleven million space-based Synthetic Aperture Radar (SAR) images. URSA can acquire space-based imagery of anywhere in the world through their network of partners and use their expertise to translate this earth observation data into patterns that enable their customers to readily understand behaviours. URSA already persistently monitors over one thousand locations globally and extracts these insights into ready-made datasets; when combined with their suite of infrastructure services they can provide advanced SAR processing, change monitoring, images services and custom analytics that directly target customer requirements.

Ursa Space provides Artificial Intelligence / Machine Learning capabilities and automated analytic results from worldwide commercial satellite constellations that collect Synthetic Aperture Radar (SAR), Electro Optical (EO) and Radio Frequency (RF) data, and provide analysis.

Data providers include: Airbus, Egeos, Capella, Umbra, Iceye, Veng, SIIS, Maxar, Planet, Blacksky, Pasco, Satellogic, Aurora Insight, Hawkeye 360, Spire, Preligens, Janes, Sierra Nevada Corp plus others upon product need

The products produced by an URSA Space powered IaaS will all be natively unclassified; however, via customer direction and exploiting MAIAR CIS, product up to OFFICIAL SENSITIVE can be delivered. The URSA Space powered IaaS is agile by design, will not be fixed in any region or theme, and can react to customer requirements immediately.

URSA Space powered IaaS will generate insights using their network of earth observation partners to provide the raw pixels that enable URSA's organic analytics to generate patterns, produce change detection outputs, highlight indicators and warnings and provide resiliency in analytical coverage.

Access to the immediate outputs of the URSA Space powered IaaS will be provided via URSA Space APIs, web applications and GIS integrations. Processed information can be made directly available to the customer via MODNET OFFICIAL, or additional insight and analytical value can be provided by MAIAR's in-house expertise and supplied to customer MODNET Official shared information environments.

Available through a subscription model, with increasing cost efficiency, as customer invested timescale and outlay increases, URSA Space powered IaaS can be scaled to the requirements of the client's analysis and application needs. Ursa Space do not provide an end-product reporting service, capabilities advice, feedback on methodology or support

in the generation of the intelligence requirements necessary to fully exploit this capability. The crucial IaaS aspect of this offer that provides partnership in requirements generation, capability selection, analytics advice, contingency response, crisis support and the production of intelligence product reporting requires the MAIAR aspect.

Our service can be accessed through unclassified internet. If the customer does not have a visualization tool for our dynamic data, we implement an ESRI (or similar) graphic user interface. Our analytic outputs are either delivered as detections/tracks in an API service or as analytic reports delivered via API or email. The user defines the problem set (what they are looking for, where, how much frequency) and our collection teams formulate a collection strategy with customer approval that collects the data. The data then flows through our automated processing and analytics are run to determine outcomes. Outcomes are delivered in the manner above.

Our service works on all operating systems and can be accessed via mobile devices. Mobile users will work via messaging with our team to define the problem and the deliverables will be a portal log-in for viewing or reporting delivered via messaging applications.

There is an API for our service that allows for data ordering, analytic ordering and analytic delivery. There is documentation associated with the APIs that are delivered to users.

Buyers can customise our service by choosing what types of data they would like us to collect, process and analyse, the frequency, the locations to collect, the frequency of collection, the collection output, the collection delivery mechanism, customisation of reports, other data sets to fuse our automated analytic outputs with and the shareability of the information.

- Onboarding and Offboarding – users get started using our data by reviewing a in person or virtual demonstration with our staff to learn about all the data types available to the customer. Then, a demonstration subscription is the next step recommended to familiarise the customer with our data delivery and how to start to integrate it into customer workflows. API documentation is available for customer use, it is written documentation. When a user is offboarded, Ursa stops supplying either custom or subscription deliveries to the user via API or message service.
- Data Importing and Exporting – Users import our data services via API into dynamic environments, ingest data layers GeoJSN, GeoTIFF, KMZ data layers, or document standards for full reports like Powerpoint, Word or PDF.
- Analytics – User metrics can be generated with subscription to service. The metrics can be around customer usage and delivery or operational in nature and defined with the creation of a project.

MAIAR can provide this core software service under G-Cloud 15.

2 Onboarding support

MAIAR, alongside the URSA Space team data-application experts where required, will provide through-life guidance to assist clients in designing and configuring the URSA Space powered IaaS to suit their business needs, intelligence requirements and existing cloud infrastructure.

Although MAIAR does not offer formal training courses, the company will provide tailored support to individual or small groups of users, managers and administrators. This can be delivered in person at Official, Secret and Above Secret locations, or remotely via Teams to ensure that IaaS outputs are readily exploitable.

3 After Sales

Once the Ursa-powered IaaS is functional, MAIAR will provide continued tailored support to users, managers and administrators. This will include guidance on new Planet capabilities, emerging Ursa partners' analytic services, data/product ingest issues-risks-opportunities and the necessary upgrades and maintenance options to suit changing client needs.

4 Technical Requirements

Minimal technical requirements as all URSA Space powered IaaS data, processed information and MAIAR insight products can be made available via emails, shared information environments or www. portal access.

5 Hosting Options

Data is currently stored primarily in AWS secured commercial cloud. Ursa Space meets all of the requirements for AWS cloud security.

All data and services will be hosted in the global cloud either on URSA Space systems for unclassified data or processed information outputs (via AWS). The additional analytical, insight and OFFICIAL/OFFICIAL SENSITIVE layer can be delivered via MAIAR systems that are accredited to process information up to OFFICIAL SENSITIVE. Access to the data, processed information and insight products can be made available via MODNET OFFICIAL emails, shared information environments or www. portal access.

6 Security

MAIAR has staff with Developed Vetting and compartment access, to enable conversations to be maintained within the appropriate location. All intelligence requirements passed to MAIAR for the purpose of exploitation within the URSA Space powered IaaS will be sanitised by the MOD customer, in conjunction with MAIAR staff in the appropriate secure location and electronically passed to MAIAR at OFFICIAL or below.

URSA Space meets the requirements of NIST SP 800-171 Revision 2 Protecting Controlled Unclassified Information in Nonfederal Systems and Organizations, which is the basis for the Cybersecurity Maturity Model Certification (CMMC).