

Overview

Azalea Radio Frequency Mapping Capability Data system detects and geolocates radio frequency transmissions from Space to identify & uncover hidden and illegal activity. This complementary data can be used to tip and cue other datasets to enhance intelligence capability, even when traditional geospatial intelligence (GEOINT) sources are compromised by weather, distance, or sea-state.

Satellite constellation capacity is tasked to perform collections in specific bands over critical user areas of interest. Our proprietary processing system then transforms the satellite collections into two accurate and easy to ingest products which combine to provide our multi-layered, geospatial intelligence and signal intelligence (GEOINT/SIGINT) combination to enable 'RF Mapping'.

Radio Frequency Mapping Geospatial Intelligence (RFM GEO-LOCATE):

- Analytic ready processed geospatial intelligence JavaScript Object Notation (JSON), providing:
 - Frequency
 - Time
 - Latitude and longitude
 - Earth-centred-Earth-fixed (ECEF) Coordinates of observed RF signals.

Radio Frequency Mapping In-phase & Quadrature (RFM IQ):

- Raw RF data, I/Q File,
- Collection Configuration File (CSV),
- Metadata (CSV).

Customer Types		Example Use Cases
	INTELLIGENCE/ DEFENSE	National Security (intelligence). Counter Terrorism. Anti-jamming. Border Security / Immigration. Sanctions Prosecution.
	CIVIL	Illegal Commercial Fishing. Search & Rescue. Piracy. Coast Guard Monitoring & Smuggling / Exclusive Economic Zone Protection.

Services are provided as standard data as a service over key standard collection zones (DaaS & SCZ) or via bespoke, user taskable mission as a service.





BAE Systems GXP Fusion®'s dashboard with Azalea's Radio Frequency Mapping Data



BAE SYSTEMS

Part of BAE Systems' Azalea Data & Insights

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