

Space Situational Awareness

Precision Characterization for Space Domain Awareness



CACI experts deliver end-to-end space domain awareness expertise and technology that empowers decision-makers and ensures mission success for Department of Defense (DoD) and Intelligence Community (IC) customers.

For more than 20 years, we have designed, built, deployed, and sustained a worldwide network of radio frequency (RF)-based sensors, software-defined radios, and processors. This network is controlled by CACI's enterprise mission management and scheduling software framework, the Goldstone Family of Systems (GFS).

The CACI-operated enterprise of passive RF sensors provide precision space object characterization for rapid detection, identification, and tracking of space objects. GFS enables alerting on new operating modes and objects, threat identification, and indications and warnings (I&W).

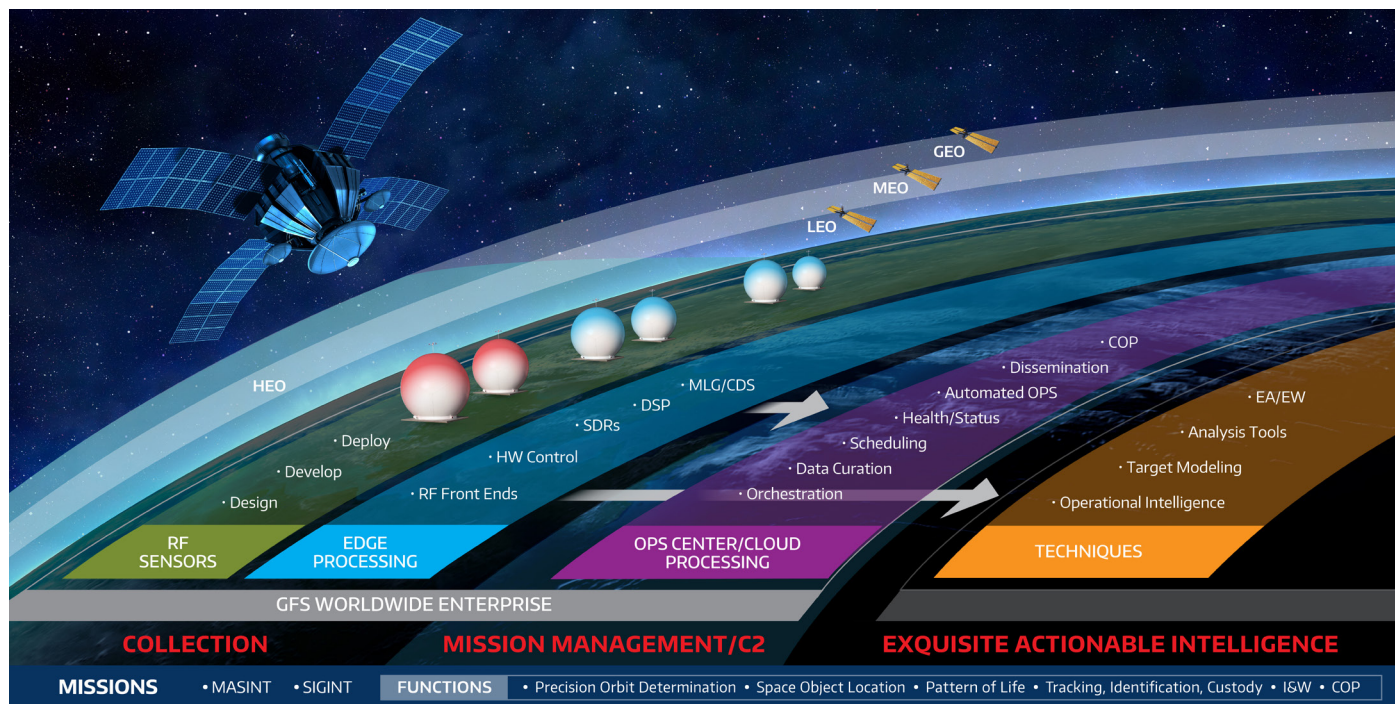
GFS is an operational capability with a fully autonomous, self-healing feature enabled by CACI's digital engineering experts. CACI system engineers establish and monitor worldwide sites for the ground sensor network; mission management, scheduling and tasking software; high availability hardware and software; and digital signal processing of the enterprise. Our space domain and situational awareness systems engineers ensure the enterprise maintains security, cyber, and policy compliance as well as scalability and interoperability while addressing technology advancements.

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For more information about our
expertise and technology visit:

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Features

Space object characterization:

- Determines an object's location.
- Establishes object pattern of life.
- Rapidly detects and identifies new objects.
- Rapidly detects and identifies new operating modes.
- Identifies threats.
- Provides alerting on I&W.

Space domain expertise:

- Employs digital and system engineering best practices.
- Ground sensor site establishment and operation.
- Global remote sensor network construction and sustainment.
- Self-healing enterprise of collection resources and mission systems.

- Automated, remote tasking and state-of-health monitoring of collection assets.
- High-availability hardware and software.
- Agile and adaptive mission management and execution software.
- Digital space signal processing.
- RF and "sense-making" expertise.

Benefits

- Data collected from the network allows CACI to produce a highly accurate visualization of the space environment.
- Our pattern recognition and predictive capabilities provide precise, highly accurate I&W of space launches and maneuvers.
- Our electronic surveillance enables targeted threat response.

Multiple DoD and IC agencies utilize data from CACI space situational awareness systems, which provides precise and actionable information about the space environment. These systems work together to depict a cohesive space domain awareness layer for the national security space enterprise. CACI applies our Sense, Make Sense, Act, Resilient Technology (SMART) approach, underpinned by data, to deliver on interoperability and horizontal integration aligned to the federal government's enterprise-wide vision.

This material consists of CACI International Inc general capabilities information that does not contain controlled technical data as defined within the International Traffic in Arms Regulations (ITAR), Part 120.10, or Export Administration Regulations (EAR), Part 734.7-10. (PRR ID516)



EXPERTISE and TECHNOLOGY
for National Security

At CACI International Inc (NYSE: CACI), our 23,000 talented and dynamic employees are ever vigilant in delivering distinctive expertise and technology to meet our customers' greatest challenges in national security and government modernization. We are a company of good character, relentless innovation, and long-standing excellence. Our culture drives our success and earns us recognition as a *Fortune* World's Most Admired Company. CACI is a member of the *Fortune* 1000 Largest Companies, the Russell 1000 Index, and the S&P MidCap 400 Index. For more information, visit us at [caci.com](https://www.caci.com).

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