Satellite Tracking & Maneuver Detection Services

KRATOS
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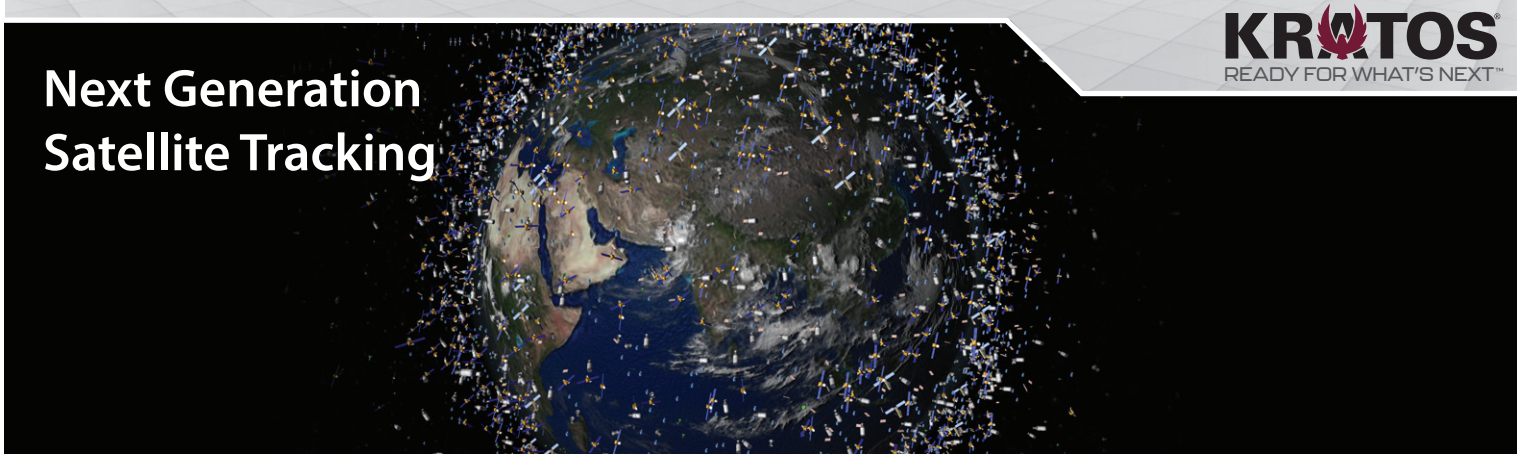


Real-time, Precise, Global Capabilities

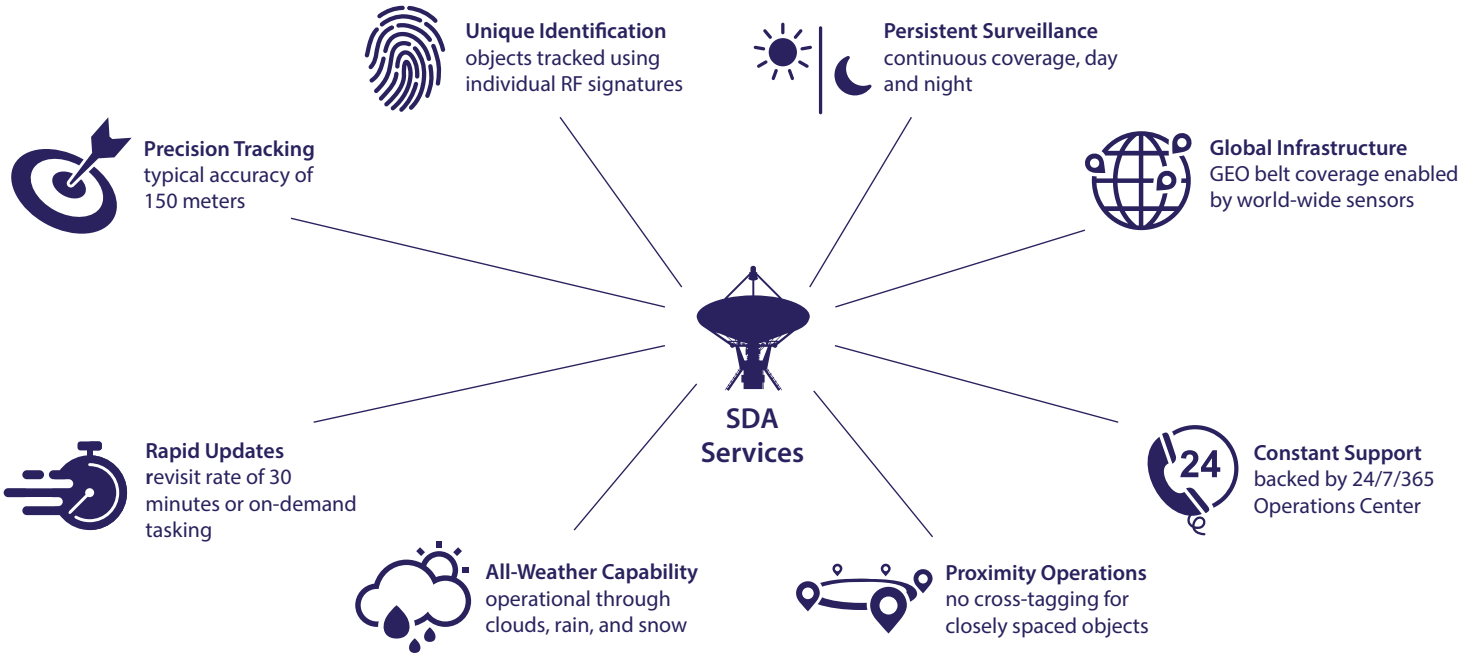
Kratos' Tracking and Maneuver Detection Service provides real-time precision satellite position, orbit determination, and maneuver detection as a data service. It is designed to support on-orbit maneuverers, maintenance, conjunction assessment, rendezvous and proximity operations, and cataloging maintenance.

Kratos uniquely identifies and tracks active objects in space enabling high accuracy, frequent revisit rates, and continuous coverage. This service is made possible through Kratos' own global sensor network that captures and catalogs the RF signals transmitted by satellites around the world.

Data is available as a turnkey subscription service delivered through a web-based REST API.

Data products include:

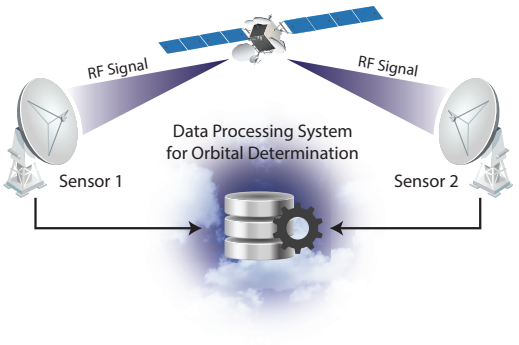
- *State vectors*
- *Two-line Element (TLEs)*
- *Maneuver alerts*
- *Raw TDOA/FDOA*



Phone: 703.254.2000 • EMail: Space@KratosDefense.com • Web: www.KratosDefense.com

Maneuver Detection

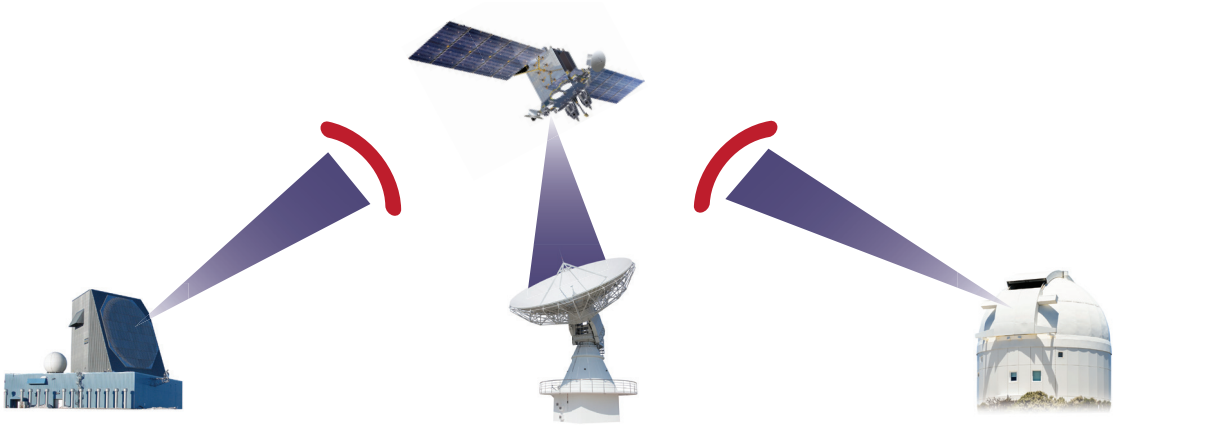
In the new space economy, it's critical to understand where objects are going, not just where they are. Kratos proprietary maneuver detection algorithms are sensitive enough to identify both chemical and electric propulsion systems and send alerts within minutes of the start of a maneuver.



Kratos measures satellite signals from multiple sensors to determine where a satellite is in orbit and to detect when it is maneuvering.

The Power of RF Space Domain Awareness

Kratos captures Radio Frequency (RF) signals to locate and track objects in space, understand satellite missions and operations, and provide capability for responding to threats and challenges in space. RF SDA is an emerging technology that fills key gaps in traditional SDA systems. Electro-optical systems lose custody during the day-time solar exclusion window, and ground-based radar is not cost-effective beyond LEO. Both struggle with cross-tagging objects, and so neither is suited to the proximity operations and interactions that are growing common in the new space economy. While RF solves these key issues, it complements, rather than replaces, these legacy technologies because it can only see active objects, and not inactive debris.



Ground-based Radar
Accuracy fades beyond LEO

Passive RF Sensing
All weather, 24/7 tracking and support for proximity operations

Electro-optical
Limited to clear sky, nightime observation

Global RF Sensor Network

Worldwide presence
L/S/C/X/Ku coverage
140+ sensors
20+ sites

Kratos' services are operated and powered by their own world-wide network.

Kratos provides Satellite Communications, Space Domain Awareness, and Space Control Solutions for commercial and government applications. Satellite Tracking capability and other solutions are also available as a customer owned and operated deployment.

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