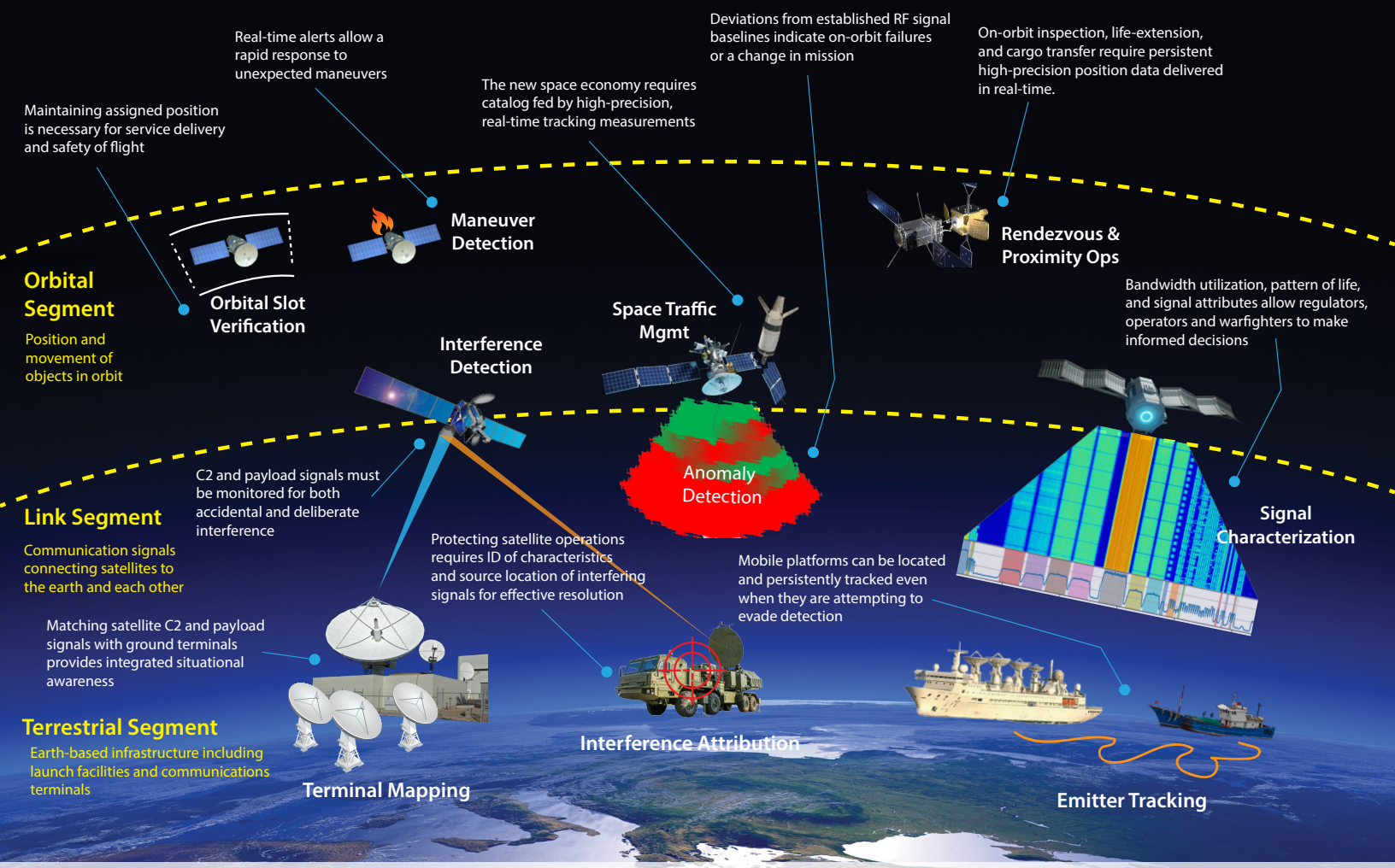
KnownSpace® Advanced SDA Services
Orbital • Link • Terrestrial

Deploy the Power of RF



Tracking and Maneuver Detection

- 360° GEO belt coverage
- 30-minute revisit rate
- Typical accuracy of 100m or better

Signal Survey and Characterization

- 360° GEO belt coverage
- 4-hour revisit rate
- 2 THz and 150K carriers / day

EMI Detection

- 360° GEO belt coverage
- Continuous revisit
- 170K transponders / day

Geolocation

- Global Geolocation Coverage
- Typical accuracy is 5 km or less

KNOWNspace®

KnownSpace® Advanced SDA Services

KnownSpace Space Domain Awareness (SDA) services deliver information and analytics integrated across the orbital, link, and terrestrial segments to support the commercial, civil, and defense market.

With the growing competition in space, KnownSpace services provide actionable insight to enhance operational awareness and security. KnownSpace offers crucial insights that complement traditional resources, enabling quick and effective decisions on emerging on-orbit threats.

Tracking and Maneuver Detection

Highly accurate services that provide satellite position and velocity with 100 meter accuracy or better, 30 minute revisit rate, with no solar exclusion window, no weather/cloud constraints or cross-tagging of closely spaced objects.

Signal Survey and Characterization

Services that measure satellite transmissions and characterizes signals to reveal key attributes including bandwidth, center frequency, modulation type, and power. Detection and characterization help to determine the intent of space objects.

EMI Detection

Services are available at high revisit rates and with continuous monitoring. Signals such as Command and Control (C2) and payloads must be monitored for both accidental and deliberate interference.

Signal Geolocation

Services pinpoint fixed and mobile terrestrial emitters with a typical accuracy of 5 kilometers.

Tailored

In addition to standard services, KnownSpace provides tailored solutions including EMI Mitigation as a turnkey service and Custom Data Collection capabilities leveraging the worldwide KnownSpace RF SDA sensor network.

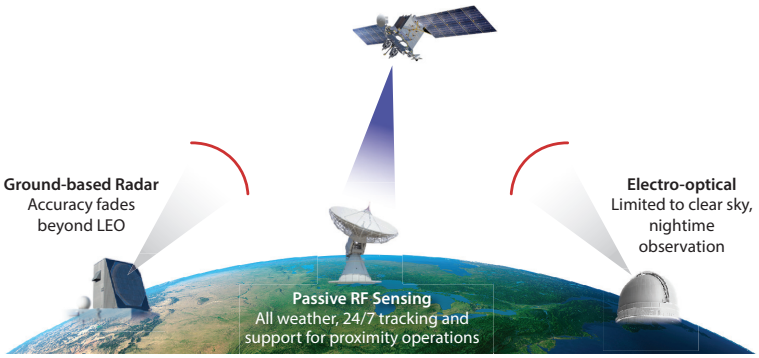
The Power of RF

KnownSpace captures RF signals to locate and track objects in space, understand missions and provide actionable insights.

Electro-optical systems lose custody during the daytime and ground-based radar becomes impractical and cost-prohibitive beyond LEO. Neither are suited to the proximity operations and interactions that are becoming common. Both struggle with cross-tagging and are not well-suited for monitoring the growing number of proximity operations and satellite interactions shaping the new space economy.

While RF excels at detecting active objects, it complements rather than replaces optical and radar systems by providing continuous monitoring where they fall short. Together, these technologies create a more resilient, multi-layered SDA approach to securing the space domain.

Kratos' KnownSpace SDA services are powered by a world-wide network of 21+ sites and 190+ sensors.



The two main sensor types for SDA data: Radar and Electro-Optical (EO). Each offers strengths, but also limitations. RF data can fill the gaps to enhance SDA.

We Do the Work

With our commercial services, you do not need to own your own hardware or systems. KnownSpaces' global sensor network and 24/7 network operations center can meet all your SDA and RF Management needs.

This unique global commercial deployment of hundreds of antennas gives Kratos KnownSpace unparalleled access to satellite signals.

Knownspace services support decision making, traffic management, threat awareness and continued space dominance.

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