



Kratos Announces Space Domain Awareness Services to Assess Spacecraft Orbiting in Close Proximity to Each Other

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Passive RF Ranging Gives the Unique Ability to Identify Spacecraft and Location with Great Accuracy

SAN DIEGO, Sept. 15, 2020 (GLOBE NEWSWIRE) -- Kratos Defense & Security Solutions, Inc. (Nasdaq: KTOS), a leading National Security Solutions provider, announced it will begin offering data services to characterize spacecraft in Geosynchronous Orbit (GEO). This has great value for Space Domain Awareness (SDA) and will be offered to government and commercial organizations internationally. Services will provide highly accurate proximity operation data, real-time maneuver detection and accurate location data, referred to as ephemeris. Services offering high rate of refresh for closely tracked spacecraft will also be available.

Kratos services will identify and accurately locate spacecraft in GEO using a powerful Space Domain Awareness (SDA) technique called Passive RF Ranging. Traditionally, the ephemeris of a unique spacecraft at GEO is derived from data obtained through ground-based radars and optical telescopes. Oftentimes, these resources cannot correctly differentiate between Closely Spaced Objects (CSOs) accurately enough to provide precise measurements, are unavailable during solar or weather exclusions, or are not geographically accessible. Kratos is not limited by these factors and can provide extremely accurate data related to the location of a spacecraft or multiple spacecraft at a specific moment in time, even when they are critically close (less than one kilometer away).

"The measurements produced by Kratos' RF Passive Ranging service are valuable because they are highly accurate, allowing operators and users to know exactly where the satellites are and where they will be with respect to each other. Accurate data during proximity operations provides critical insight to operators for vehicle safety," said Fred W. Gaudlip, Senior Director of Space Domain Awareness Solutions. "Among the challenges for SDA is the capability to maintain active custody of specific spacecraft. Active custody includes determining when spacecraft go missing, regions to search for missing spacecraft and correctly identifying the right spacecraft as the previously missed object when finally found. Tracking spacecraft with high rate refreshes ensures unexpected spacecraft maneuvering will not affect maintaining original custody."

Kratos' extensive network consists of global RF monitoring sites, hosting fixed and steerable sensors and antennas in L, S, C, X, and Ku bands. Kratos' 24/7/365 Network Operations Center (NOC) is the central hub for monitoring and integrating raw RF data from its global sensor network. Advanced technologies developed by, and exclusive to, Kratos have been integrated into all levels of this infrastructure, from custom algorithms employed in the sensor network, to industry-leading commercial applications used in the NOC for data monitoring, correlation and geolocation, as well as specially-developed analytics that provide the real meaning behind the raw data. The RF Ranging monitoring services are part of a portfolio of RF services offered to government and commercial customers including end-to-end satellite RF monitoring, interference detection, geolocation and mitigation.

About Kratos Defense & Security Solutions

Kratos Defense & Security Solutions, Inc. (NASDAQ:KTOS) develops and fields transformative, affordable technology, platforms and systems for United States National Security related customers, allies and commercial enterprises. Kratos is changing the way breakthrough technology for these industries are rapidly brought to market through proven commercial and venture capital backed approaches, including proactive research and streamlined development processes. At Kratos, affordability is a technology, and we specialize in unmanned systems, satellite communications, cyber security/warfare, microwave electronics, missile defense, hypersonic systems, training, combat systems and next generation turbo jet and turbo fan engine development. For more information go to www.KratosDefense.com.

Notice Regarding Forward-Looking Statements

Certain statements in this press release may constitute "forward-looking statements" within the meaning of the Private Securities Litigation Reform Act of 1995. These forward-looking statements are made on the basis of the current beliefs, expectations and assumptions of the management of Kratos and are subject to significant risks and uncertainty. Investors are cautioned not to place undue reliance on any such forward-looking statements. All such forward-looking statements speak only as of the date they are made, and Kratos undertakes no obligation to update or revise these statements, whether as a result of new information, future events or otherwise. Although Kratos believes that the expectations reflected in these forward-looking statements are reasonable, these statements involve many risks and uncertainties that may cause actual results to differ materially from what may be expressed or implied in these forward-looking statements. For a further discussion of risks and uncertainties that could cause actual results to differ from those expressed in these forward-looking statements, as well as risks relating to the business of Kratos in general, see the risk disclosures in the Annual Report on Form 10-K of Kratos for the year ended December 29, 2019, and in subsequent reports on Forms 10-Q and 8-K and other filings made with the SEC by Kratos.

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