

HawkEye 360 Releases Improved GNSS Interference Detection Suite

Space-based signals intelligence and data analytics group HawkEye 360 (Herndon, VA) has revealed a series of enhancements to its GNSS Interference (GNSS-I) Detection product suite designed to afford greater accuracy, coverage and insight of jamming and spoofing of Global Navigation Satellite Systems (GNSS).

Accurate and uninterrupted GNSS signals – primarily provided by the US Global Positioning System – are critical to positioning, navigation and timing for western military forces and commercial users across the globe. Disruptions to these signals, whether through intentional interference or incidental factors, can introduce uncertainty and compromise the effectiveness of essential activities: for example, Russian GNSS jamming in the Kaliningrad region has affected civil aviation, commercial maritime traffic and NATO operations in the Baltic region.

According to HawkEye 360, the latest release of its GNSS-I Detection product suite is intended to deliver improved situational awareness and more precise geolocation of interference sources. The new release embeds a new wider frequency algorithm designed to better distinguish individual emitters: as well as incorporating GPS spoofing detection, the new algorithm is terrain-adjusted for better geolocation accuracy.

HawkEye 360's new spoofing detection capability can also identify potentially malicious transmitters that imitate legitimate GPS Course/Acquisition (PRN) codes—a tactic increasingly used to deceive aircraft and mislead navigation

systems. The capability supports threat mitigation and trend analysis by detecting and geolocating these spoofers down to a kilometer-level precision, said the company. – *R. Scott*