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Orolia improves Spectracom SecureSync GPS threat mitigation through partnership with Talen-X



Through the strategic partnership with Talen-X, Orolia is now able to provide improved protection against emerging GPS threats in their Spectracom brand of products, including the SecureSync precision time and frequency reference.

Orolia, the global leader in Resilient Positioning, Navigation and Timing (PNT) solutions, announced today that it has taken the next integration steps with its Spectracom line of Resilient PNT products, which will enable clients to take full advantage of Talen-X's BroadShield Interference and Spoofing Detection technology. Today's announcement follows up on news of the recent Talen-X strategic alliance.

Orolia's Spectracom and Talen-X have aligned hardware and software development efforts to jointly develop, market and sell the most advanced PNT solution. The goal is to combine the strengths of leading Spectracom Resilient PNT products with Talen-X's interference and spoofing detection suite (BroadShield). In addition, under this alliance, Orolia will manufacture [SecureSync](#) precise time and frequency references with [BroadShield](#) integrated for Talen-X, in its Rochester, New York facility.

"This synchronized solution is designed to meet both government and commercial requirements by improving the protection of GPS/GNSS based critical infrastructure systems against emerging GPS/GNSS threats." "Talen-X's interference and spoofing



detection algorithms have been successfully supporting the U.S. Department of Defense (DoD) in Navigation Warfare (NAVWAR) testing for over six years, and are ready to be leveraged to protect civil communities as well."

Greg Gerten, Talen-X CEO

Many mission critical defense, government and commercial operations require highly accurate and reliable PNT data but often rely on signals from GPS/GNSS satellites that are increasingly susceptible to interference or jamming. The Talen-X BroadShield technology is a fully integrated software option available within Spectracom SecureSync. Working with standard SecureSync GPS/GNSS receivers, BroadShield utilizes its unique software algorithms to detect anomalies in the GPS signal, including unintentional interference and malicious attacks. Armed with feedback from BroadShield detected anomalies, the integrated solution provides notification, alarming, and automatic disabling of GPS/GNSS synchronization.

At the same time, BroadShield interference and spoofing detection technology enhances the Resilient PNT capabilities of the best-selling Spectracom SecureSync line of time and frequency reference systems. BroadShield achieves this by ensuring mission critical applications receive reliable, accurate and precise time and frequency information in a variety of challenging environments.

"Orolia is focused on providing Resilient PNT solutions, combining and layering technology in innovative ways that help our customers meet their mission goals. This new capability from Talen-X augments our systems with a unique ability to detect and mitigate emerging GPS and GNSS threats more effectively."

John Fischer, Orolia's V.P. of Advanced R&D

In addition, Spectracom SecureSync will take full advantage of Talen-X's BroadShield algorithms, which are known for meeting the requirements for Critical Infrastructure published by the U.S. Department of Homeland Security (DHS). Beyond complying with DHS best practices, Talen-X has further enhanced the BroadShield algorithms to go beyond simply detecting various threats. Thanks to this enhancement, Spectracom SecureSync operators now have detailed threat characteristics, real-time situational awareness and recorded data for post event forensic analysis.



■ For Editors:

About Orolia

Orolia is the world leader in resilient positioning, navigation and timing (PNT) solutions that improve the reliability, performance and safety of customers' critical, remote or high-risk operations. Through its leading Kannad, McMurdo, Sarbe, Spectracom and Spectratime brands, Orolia has more than 400 employees and sales presence in over 100 countries worldwide. Leading organizations including Airbus, NASA, Thales and Raytheon rely on Orolia for fail-safe GNSS and PNT products and solutions for their mission critical needs. Founded in 2006, Orolia has a global presence with offices in China, France, Russia, Switzerland, Singapore, India, the U.K. and the U.S.A.

About Spectracom

Spectracom, an Orolia brand, is a leading provider of Resilient Positioning, Navigation and Timing (PNT) technology solutions that increase our customers' multi-signal reliability, time synchronization and security for critical applications. We offer outstanding customer service backed by continuous certification to ISO9001 and other global quality programs. For more information, visit spectracom.com.

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For more information

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