



**Orolia Fortifies Resilient Positioning, Navigation and Timing Solutions  
with Innovative Satelles Satellite Time and Location Signal Technology**

*Strategic Alliance includes product development, go-to-market activities of PNT solutions independent of GPS/GNSS satellite signals to Military, Defense, Government and Commercial customers worldwide*

**Washington D.C., USA – December 15, 2016** – Orolia, the global leader in Resilient Positioning, Navigation and Timing (PNT) solutions, announced that it has formed a strategic alliance, including an equity investment, with Satelles, Inc. to develop, market and sell PNT solutions based on Satelles' Satellite Time and Location (STL) signal technology. STL is a unique space-based PNT technology that provides location and timing data independent from traditional GPS and GNSS satellite signals. By using STL, Orolia's proven Spectracom and McMurdo branded solutions will be less susceptible to vulnerabilities – spoofing, interference and jamming – associated with GPS/GNSS.

Many highly sensitive military, defense, government and commercial applications and operations including maritime/aviation navigation, fleet/asset tracking management, search and rescue and data center management require accurate and reliable PNT data. Today, these applications rely on signals from GPS/GNSS satellites. There are instances, however, where GPS/GNSS signal strength and security are not sufficient and prone to signal disruption. For these cases, STL can be used as a secure signal of opportunity to complement GPS/GNSS making the applications more accurate and secure and less prone to interference and attack.

"In today's increasingly dynamic and mobile world, there is a growing need for precise and robust positioning, navigation and timing information especially in business critical, high risk and life-saving operations," said Dr. Jean-Yves Courtois, Orolia CEO. "By augmenting Orolia's market-leading GPS/GNSS-based solutions with Satelles' STL technology, we will have the industry's first essentially fail-safe, resilient PNT solution. This breakthrough offering will be ideal for mission critical applications in which the smallest of discrepancies in PNT data accuracy, availability and stability can result in a network outage, a system crash or a loss of life."

Based on the Iridium® satellite constellation, STL signals are up to 1000 times stronger than GPS/GNSS which helps to prevent jamming and allows easier signal reach into buildings and other hard-to-reach locations. STL's additional cryptographic security also ensures the highest levels of performance, productivity and security.

"Satelles' pioneering role in STL technology is a perfect fit with Orolia's proven Resilient PNT strategy," said Dr. Michael O'Connor, Satelles CEO. "We look forward to working together to introduce new products and solutions that will provide our customers with the utmost confidence that their positioning, navigation and timing data is accurate, secure and accessible."

For information on Orolia, please visit [www.orolia.com](http://www.orolia.com). For information on Satelles, please visit [www.satellesinc.com](http://www.satellesinc.com). A press kit is also available at <https://www.orolia.com/en/media-center/news/news-2016/1084-satelles-satellite-time-and-location-signal-technology.html>

### **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, the U.K., the U.S.A. and further plans to expand its global footprint in 2017.

### **About Satelles**

Satelles has developed and deployed the world's first real-time PNT service based on Low Earth Orbit satellites. Satellite Time and Location (STL) signals are highly secure, penetrate deep indoors, and are available anywhere on Earth. These features make the service perfect as an independent augmentation for GPS/GNSS and other location-based technologies. With offices in Redwood City, California, and Fairfax, Virginia, Satelles works in partnership with recognized industry leaders to deliver these secure time and location capabilities to government and commercial users worldwide,

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