



Orolia Announces Successful Synchronization in Multiple Indoor Locations with Spectracom SecureSync Time Server and Satelles STL Signal



Satellite based alternative PNT solution penetrates interior walls and demonstrates a more resilient timing solution in the NY Stock Exchange, Institute of Navigation event, and MiFiD2 event near the Paris Stock Exchange.

Orolia, the global leader in Resilient Positioning, Navigation and Timing solutions, announced that in several indoor environments in the field, it has successfully synchronized a Spectracom [SecureSync](#) high precision time server with the new Iridium [Satelles](#) Satellite Time & Location (STL) time synchronization signal powered by Iridium satellites. Configured with an embedded STL receiver and a small patch antenna, the SecureSync was able to sync up with the STL signal in several challenging indoor locations. The first successful synchronization was in the interior of a building in one of the most challenging urban canyons on Earth, downtown Manhattan on the 7th floor of the New York Stock Exchange. The second was in the interior of a conference center with multiple sources of potential signal interference



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during The Institute of Navigation event in Monterey, CA. Additional successful indoor timing signal synchronization locations include MiFiD2 events near the Paris Stock Exchange, a multi-story building and inside Gibson Hall in downtown London. More GNSS challenged locations to come.

How did the Satelles STL signal penetrate the buildings for indoor operation when other satellite signals have limitations? The success is related to the fact STL uses the narrow band paging channels of Iridium, a one-way transmission from the satellite with a very high gain system. The STL signal is completely different from the wide band, lower gain two-way channel of the Iridium phone, and cannot be compared. The STL signal is 1000 times stronger than GPS because it originates from the Iridium constellation of 66 satellites orbiting in a low earth orbit. It is also encrypted for high security, which greatly enhances the Resilient PNT capabilities of the Spectracom product lines, especially the bestselling SecureSync precision time and frequency reference. The Spectracom SecureSync with integrated STL synchronization is available to order from the [Spectracom website](#) or by [contacting a representative](#).

"The new STL signal is the ideal solution for those needing increased security and reliability, applications such as high frequency securities trading, financial transaction timestamping compliance and critical infrastructure timing. It is not only an additional signal to back up traditional GNSS, it is also stronger and more secure, adding significantly to the resiliency of high performance systems and networks that must rely on precise time synchronization".

John Fischer, Orolia Vice-President, Advanced R&D.

Having proven the ability to provide a strong and reliable alternative signal in various indoor field locations, the new globally accessible STL signal adds a significant safety net to any critical GNSS application. Adding to the mix of signals of opportunity the resiliency of positioning and timing for financial, defense and critical infrastructure is greatly enhanced.

"Orolia is focused on providing [Resilient PNT](#) solutions, and by combining and layering technology in innovative ways we help our customers meet their mission goals. This new satellite-based service provides a unique signal that augments Spectracom systems, enhancing our ability to effectively mitigate emerging GPS and GNSS threats".

Rohit Braggs, Orolia Vice President, PNT Networks & Sources.



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For Editors:

About Orolia

Orolia is the world leader in resilient positioning, navigation and timing (RPNT) solutions that improve the reliability, performance and safety of customers' critical, remote or high-risk operations. Through its leading Spectracom, McMurdo, Kannad, and Sarbe brands, Orolia has more than 400 employees and sales presence in over 100 countries worldwide. Leading Defense & Aerospace organizations around the world rely on Orolia for fail-safe GNSS and PNT solutions for their mission critical needs. Founded in 2006, Orolia has a global presence with offices in the USA, France, Russia, Switzerland, UK, Brazil and China, with 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.

Company information

Sheri Ascencio

Orolia Product Marketing Director
Tel: +1 858-458-8107
sheri.ascencio@orolia.com

Bart Ferrell

Satelles Communications Director
Tel: +1 618 920 9434
bferrell@satellesinc.com

For more information

- [Orolia](#)
- [Spectracom](#)
- [McMurdo](#)
- [Satelles](#)