LORIOT Leverages Kerlink's Wanesy Geolocation Services To Offer IoT Location Solution to its Customers in 130+ Countries

Land-Based, Low-Power Location Technology for Indoor and Outdoor Applications Can Be Installed Remotely on Internet of Things Devices

PRESS RELEASE

Thorigné-Fouillard, France and **Thalvil**, Switzerland – Dec. 11, 2018, 06:00 p.m. CET – **Kerlink** (ALKLK - FR0013156007), a specialist and global leader in solutions dedicated to the Internet of Things (IoT), and **LORIOT,** a leading global provider of LoRaWAN™ and IoT infrastructure software, today announced they will offer Kerlink's geolocation service to LORIOT's worldwide customers.

The Swiss startup has provided LoRa-based low-power, wide-area (LPWA) network-server solutions to customers in more than 130 countries in partnership with leading national and international IoT companies. With this agreement, LORIOT will provide Kerlink's Wanesy™ Geolocation technology, which allows precise location of end-devices without GPS, as a remotely installed value-added services add-on to LORIOT's customers in those countries.

LoRaWAN™ networks use trilateration, a process of determining absolute or relative locations of points by measurement of distances, using the geometry of circles, spheres or triangles, to geolocate end-devices. It relies on three or more access gateways receiving signals (or frames) from a LoRaWAN end-device. Each payload received is precisely time stamped on reception by the gateway and all carrier-grade LoRaWAN stations' internal clocks are highly synchronized to optimize the stamp accuracy. Using the exact position of each network access gateway and the nanosecond differences between signal receptions, the time difference of arrival (TDoA), an expert algorithm can precisely calculate the location of a LoRaWAN end-device.

"This partnership with LORIOT will enable the worldwide deployment of our LoRaWAN Wanesy Geolocation solution and highlights its flexible compatibility with any type of LoRaWAN infrastructure already deployed to quickly deliver value-added and scalable services," said Didier Larrieu, vice president of Kerlink's Advanced Services business unit. "This innovative technology can locate static or mobile end-devices indoors or outside without a dedicated infrastructure or the high energy consumption required by satellite-based GPS. This makes it well suited for many use cases that call for cost-efficient operation and long battery life."

Asset tracking and security in harbors, airports and industrial sites, livestock tracking, and safety, construction-site monitoring and warehouse pallet identification are among the many common use cases for Kerlink's geolocation solution.

"Kerlink's geolocation capability is a significant addition to our portfolio of third-party, out-of-box, IoT services," said Julian Studer, CFO and co-founder of LORIOT. "Delivered remotely, through our existing distributed-server infrastructure, Kerlink's geolocation technology is a vital and cost-saving add-on for our customers around the world."

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About Kerlink Group

Kerlink Group is a global leading provider of end-to-end network solutions for the Internet of Things (IoT), serving telecom operators, businesses and public authorities worldwide. Its growing suite of turnkey IoT services includes network planning, design and operational management that maximizes performance of its market-leading, carrier-grade infrastructure offering. The Group, widely recognized for its IoT expertise, also continually introduces innovative value-added services, such as network-based geolocation, remote end-device management and low-power IoT reference design, which allows its customers to quickly bring to market IoT-ready devices and to imagine innovative business models to monetize their deployments.

In just over 10 years, more than 100,000 Kerlink installations have been deployed in more than 69 countries. In 2017 Kerlink supplied more than 330 customers, including major telecom operators such as Tata Communications, and service providers such as GrDF and Suez. The company's solutions are enabling IoT networks worldwide with major deployments in Europe, South Asia, South America and Oceania. Kerlink, a co-founder and board member of the LoRa Alliance™, has invested more than €10 million in research in the past three years. In 2017, Kerlink Group generated revenues of nearly €25 million, more than 50 percent internationally. Since 2013, it has posted average annual growth of more than 62 percent. It has been listed on Euronext Growth Paris since May 2016 and was added to the EnterNext PEA-PME 150, an index of 150 fast-growing French SMEs, in 2017. It joined the Tech 40 index in April 2018, which recognizes the top-performing tech SMEs on Euronext's markets in Amsterdam, Brussels, Lisbon and Paris.

For more information, visit www.kerlink.com or follow us on Twitter @kerlink_news.

About LORIOT

LORIOT provides a portfolio of LoRaWAN™ software products and software services. Its software is currently powering a global public LoRaWAN network, and numerous public and private networks worldwide.

LORIOT's geographically distributed server infrastructure delivers low-latency access to LoRaWAN network and data management services. The infrastructure enables clients to deliver convincing Proof-of-Concept projects with extremely short time to market, minimized development effort, and fast return on investment. A clear path from PoC to large-scale network is available through the options of single-tenant managed services and software licensing of the LoRaWAN management software for on-premise deployment. LORIOT works closely with LoRa™ gateway and end-device / sensor manufacturers to ensure high quality and compliance with security standards of complete LoRaWAN-based end-to-end solutions. Visit www.loriot.io.

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