



Radiocommunication for space IoT

● Syrlinks provides to Thales Alenia Space the heart of the instruments of the Kinéis IoT constellation ●

Press Release

Cesson-Sévigné, France, 19th July 2019. Syrlinks, the French SME, has been chosen by Thales Alenia Space to contribute to the design and delivery of the instruments, embedded in the future Kinéis constellation nanosatellites. These miniaturized systems called «payload» will recover the data transmitted from the beacons to the satellites, before beaming them back to the ground-based stations. Syrlinks has been chosen for its proven expertise in space technology and its mastery of the New Space class and miniaturization, designed to reduce system energy consumption. The company has already been closely involved in this area, having worked as subcontractor of Thales Alenia Space since 2017 on the development of the Argos Néo payload for the demonstration nanosatellite built by the CNES (the French National Center for Space Studies). Syrlinks has now completed the development phase of this demonstration nanosatellite and delivered its flight model. The launch is scheduled for October 2019.

An unprecedented constellation for the IoT



With 25 nanosatellites in service, Kinéis will operate the very first European nanosatellite constellation for the IoT. As announced last September, Kinéis has entrusted Thales Alenia Space with the development of the payloads, in partnership with Syrlinks, while Hemeria (a Nexeya corporation) will design and build the nanosatellites.

The CNES provides its technical expertise to guarantee the operation of the complete system.

Caption: The Syrlinks team mobilized on the Kinéis project

Syrlinks teams will develop a data collection instrument for the Kinéis constellation, incorporating highly evolved calculators to process the information collected. Thanks to component miniaturization, the hardware and firmware of the data collection instrument developed by Syrlinks weighs only 2kg, while performing the same functions as the former generation 18kg system. This new equipment will be produced with the brand-new lab instruments and production tools acquired to produce Syrlinks equipment for the OneWeb constellation.

This new program has allowed Syrlinks to expand its range of space radiocommunication products with more advanced features. *“By enriching our field of expertise, we are expanding our range of micro and nano satellite products and solutions. This has opened up new international markets for us and we are all set to seize the opportunity!”* says Guy Richard, CEO of Syrlinks. By entering this complementary space market segment, the company also aims to offer new generation Argos beacons adapted to the constellation.

A global satellite localization and connectivity

By 2022, Kinéis aims to connect several million objects located anywhere on earth. Professionals and the general public will have access to a global, easy-to-use and very affordable satellite localization and connectivity service.

The need to monitor goods and people is increasing and the number of connected objects is growing exponentially, with 30 billion connected objects by 2030. Finding a fishing vessel in distress, locating a lost container, tracking an extreme hiker in the wilderness... Extreme leisure, agriculture, fishing, logistics, yachting and science are all sectors of activity that will be able to rely on Kinéis' global connectivity services.

This new space adventure opens up new development prospects for Syrlinks because its solutions are easily and quickly adaptable to other programs and other uses at competitive prices.

Quotes from the project partners

Jean Loïc Galle, CEO of Thales Alenia Space:

“We are extremely proud to be able to contribute our expertise to the development of this structuring project for both our company and our subcontractors and partners. It's the completion of a fruitful collaboration between CLS, Nexeya, Syrlinks and Thales Alenia Space which has credited an innovating system approach based on a high performance and high reliability nanosatellite constellation.”

Christophe Vassal, CEO of CLS:

“Strong with the French excellence in space, with the unshakable support of the CNES and high accounts which will participate in a future round table, we have decided to create Kinéis to make accessible, to the greatest number, satellite geolocation and data collection.”

ABOUT SYRLINKS

Thanks to its mastery of innovative technologies, Syrlinks designs, manufactures and markets high performance radiocommunication and geolocation equipment in the fields of space, defense, security and time-frequency. Its products are outstanding and internationally renowned for their robustness, their performance, their miniature size and their low energy consumption. Syrlinks works with prestigious clients and partners such as Airbus, Oneweb, the CNES (the French national agency for space studies), the European Space Agency (ESA), Thales Alenia Space, and Hemeria.

The company, founded in 2011 near Rennes in France, employs around a hundred people. Its leaders anticipate the recruitment of around twenty more staff in 2019.

For its first space contract, Syrlinks participated in 2012 in the development of the CNES Myriade Evolutions platform's radio links for Earth observation missions. The popularity of Syrlinks was also based on the Rosetta space mission, initiated by the ESA, aimed at exploring Comet Tchouri. Syrlinks team designed and manufactured the wireless communication systems connecting the Rosetta probe to the Philae robot-lander.

What next?

Syrlinks aims to strengthen its space activities for the supply of onboard radiocommunication equipment on small and middle-sized satellite platforms (Micro, Nano/Cube). Building on its business dynamics, Syrlinks is bent on encouraging innovation, strengthening its workforce, developing its export strategy and opening up new markets.

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Company management

From L to R on the picture:

Guy Richard, CEO,
Philippe Moniot, Sales Director,
Philippe Bataille, CTO,
Gwénaél Guillois, COO, Managing Director
The four co-founders of Syrlinks

- **Foundation:** June 2011
- **Activity:** Design, manufacture and marketing of radiocommunication, geolocation and time/frequency equipment for harsh environments.
- **Fields of activity:** Space- Defense - Safety - Time/Frequency
- **Number of employees:** 100 including 60 in research & development
- **Outlook for recruitment in 2019:** 20 new positions, mainly in sales and production
- **Turnover 2018:** 11 million euros / \$12 million
- **Turnover 2017:** 9,2 million euros / \$10 million
- **Export:** 45% of sales; including 25% in the United States, 15% in Europe, and 5% in Asia.

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