

September 15th, 2022

SSC ENGAGES CAILABS TO BUILD ITS FIRST OPTICAL GROUND STATION

The Swedish Space Corporation (SSC) has ordered a ground station from Cailabs as part of the NODES (Network of Optical stations for Data Transfer to Earth from Space) optical communication project supported by the European Space Agency (ESA).

The Scientific Expert Committee of the Swedish company SSC has selected Cailabs to supply a first ground station, strengthening the ground segment for the optical communication market of the future. Cailabs is now positioned as one of the first private companies in Europe to own and operate a ground station. Within the framework of the Keraunos project¹, Cailabs designed and built a pilot ground station, which was installed this summer at the company's new headquarters in Rennes.

Thanks to its know-how and investment in optical communications, Cailabs is now able to offer industrial optical ground stations that meet market standards. These ground stations enable reliable and high throughput communication, thanks to the unique atmospheric turbulence compensation component (TILBA-ATMO by Cailabs), which is integrated and easily embedded, unlike other technologies.

"We are proud to be part of the advancements within this fast-moving industry segment. While the market for optical communication is still young, the need for moving to this unlicensed part of the spectrum is greater than ever. In the coming years our ambition is to offer industry-leading ground station capabilities within optical communication. This first station establishment together with Cailabs is a major step towards this realization," says Hanna Sundberg, SSC Lead System Architect Optical Communications and Project Manager for the NODES project.

"We are pleased that a private company and major space player like SSC is positioning itself with an agile company like Cailabs, which will deliver a ground station within a short timeframe of one year," says Fabien Ghez, Sales Director at Cailabs. *"This positions Cailabs as a leading supplier of complete optical ground stations in a growing market,"* he concludes.

¹ The Keraunos project aims at implementing and operating a complete optical link: from the satellite terminal, embedded in a nano-satellite designed and launched in low orbit by the company Unseenlabs, to the ground.

About Cailabs

Founded in 2013, Cailabs is a French deep tech company which designs, manufactures and distributes innovative photonic products for telecommunications, free space transmission, industrial lasers, and LANs. A global leader in complex light shaping, its technology is currently protected by 19 patent families. Its innovative optical components are used in a variety of sectors and have contributed to several world records (notably the optical fiber bandwidth record achieved by the Japanese operator KDDI). Since 2016, Cailabs has obtained numerous innovation awards worldwide. Additional information about Cailabs is accessible at www.cailabs.com.

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