



NeuralAgent and Miratlas join forces to create predictive and robust architectures for space, air, and ground based optical-laser communications.

Companies to collaborate on a new Artificial Intelligence (AI)-based network layer addressing a significant limitation of optical/laser communication systems, atmospheric effects, and constraints.

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NeuralAgent GmbH, a Munich, Germany based Start-Up, that provides AI-based software for connected intelligence and decentralized redundant networks, and Miratlas SAS, a French Start-Up - known for their atmospheric data characterization systems for optical communication, have signed a Memorandum of Understanding to join forces on a critical mission for the new space market: “Building a predictive and robust networking capability for global space to earth optical communications around heavy atmospheric conditions“

One of the major constraints associated with use of optical-laser communications for data communications between satellites and ground stations are atmospheric effects such as cloud cover and rain which deteriorate both link availability and data throughput. Using NeuralAgent's AI-based software, and Miratlas' atmospheric data characterization, the companies will join forces and expertise to create a unique network layer to enable and improve optical links despite weather conditions. This will enable the expansion of both parties' complementary solution in the global market for optical communications and accelerate the industry adoption of optical laser terminals and links.

“Through this unique partnership, our vision towards realizing high-bandwidth autonomous networks for space, air, and ground has in place one of the major complementary elements. We are one step closer” said Dr. Onur Deniz, Chief Executive Officer of NeuralAgent.

When asked about the collaboration, NeuralAgent’s board member and senior advisor, ex-Airbus Defense and Space CEO Dirk Hoke, responded “This partnership between a French and a German company is a model for pan-European space collaboration between two start-ups operating in adjacent segments of a burgeoning high-tech industry where Europe leads the rest of the world: optical-laser communications.”

The collaboration between NeuralAgent and Miratlas is a significant step forward in the development of an advanced technology layer for robust optical communications.

The CEO of Miratlas Dr. Jean-Edouard Communal. concludes, “With a common vision and complementary technologies, we’re excited to be working with NeuralAgent to speed up the adoption of direct to earth optical coms and the extension of the terrestrial network infrastructure into space to support future constellations bandwidth requirement”,

The CTO of Miratlas Frédéric Jabet. said, “Routing is one of the most important problematic of Free Space Optical constellations for it handles the uncertainties introduced by the ever changing medium. With this collaboration, we will be able to have the atmosphere taken into account by smart routing algorithms, the loop is closed.”

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