Airbus, ST Engineering to explore new 3D radar capabilities and AI-powered space solutions

Singapore, 2 February 2026 – Airbus Defence and Space and ST Engineering have signed two Memorandums of Understanding (MoUs) to jointly explore and develop advanced satellite capabilities and digital solutions.

Signed at the Space Summit on the sidelines of the Singapore Airshow, the agreements establish a framework for cooperation in next-generation Synthetic Aperture Radar (SAR) capabilities and Artificial Intelligence (AI)–enabled geospatial analytics to meet evolving market and customer needs.

“These MoUs reflect our shared ambition to push the boundaries of geospatial intelligence,” said Zakir Hamid, Head of Region for Asia-Pacific, Airbus Defence and Space. “By combining Airbus’ space and geospatial expertise with ST Engineering’s strong digital and satellite systems capabilities, we are well positioned to deliver next-generation solutions for customers in Asia-Pacific, Europe and beyond.”

ST Engineering is a global technology, defence and engineering group with a diverse portfolio of businesses including aerospace, smart city, defence and public security segments.

“We are excited to deepen our collaboration with Airbus Defence and Space, leveraging our capabilities in the design and manufacture of Earth observation satellites and other imagery solutions. In combination with our expertise in AI and digital tech, we are confident of creating innovative Space solutions and services together with Airbus,” said Low Jin Phang, Chief Operating Officer for Defence & Public Security, and President for Digital Systems, ST Engineering.

This MoU formalises the collaboration to explore a joint partnership between Airbus and ST Engineering in developing a new satellite imaging concept known as multi-static Synthetic Aperture Radar (SAR), with ST Engineering to develop the companion satellites to operate alongside the PAZ-2[1] satellite manufactured by Airbus and the commercialisation of this service. This “3D SAR” approach involves one satellite transmitting radar signals and three others receiving them from different angles. By combining these perspectives, the system can generate richer, more detailed and more reliable 3D models of the Earth’s surface.

[1] The PAZ-2 satellite is among the most advanced in the world. It provides significantly improved image quality and resolution to better than 25 centimetres, while increasing the coverage up to 6.7 million km² per day, and orbiting the Earth 16 times daily. These enhancements assist civilian applications in infrastructure monitoring, risk management, border control and disaster assessment, capturing radar imagery 24 hours a day and in all weather conditions. The Paz-2 satellites are owned and operated by Hisdesat; Airbus and Hisdesat will jointly market the Paz-2 services.

This multi-satellite approach ensures high-accuracy imaging regardless of darkness, weather, or ground interference. These reliable, real-time insights will significantly enhance missions in defense, border surveillance, and disaster response, where timely and dependable information is critical.

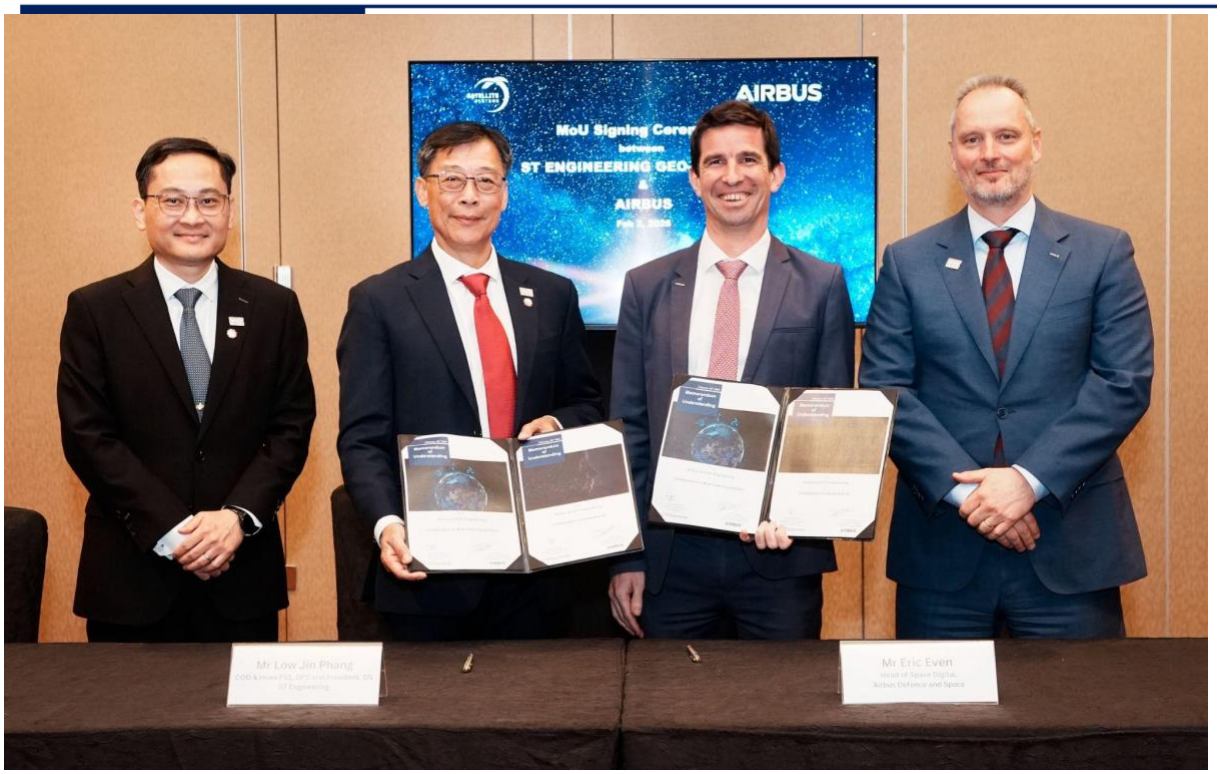
The second MoU will see Airbus and ST Engineering develop a Generative AI system for advanced satellite imagery analysis. By applying advanced AI techniques to geospatial data, the collaboration will enhance object detection, change monitoring, and automated reporting, providing faster and more accurate insights for decision-makers.

To further support innovation and scaling, the collaboration will also assess opportunities to tap into Singapore's local expertise to accelerate the development and deployment of satellite and AI technologies.

These new MoUs build on a long-standing history of cooperation between Airbus and ST Engineering. ST Engineering Geo-Insights has been a long-term reseller of Airbus satellite imagery services, providing customers in the region with access to high-quality Earth observation data.

By working closely together, Airbus and ST Engineering aim to help customers respond more effectively to security challenges, natural disasters and everyday operational needs, delivering practical solutions with real-world impact.

@Airbus #STEngineering #Space



From left to right: Mervyn Tan, Group Chief Operating Officer (Technology & Innovation) and President Defence & Public Security, ST Engineering; Low Jin Phang, President, Digital Systems, ST Engineering; Eric Even, Head of Space Digital at Airbus Defence and Space; and Michael Schoellhorn, CEO of Airbus Defence and Space. ©Airbus SAS 2026

Newsroom

Contacts for the media

Bruno Daffix
Airbus Defence & Space
+33 6 48 09 96 50
bruno.b.daffix@airbus.com

Aaron Chong
Airbus Asia-Pacific
+65 9387 3886
aaron.chong@airbus.com