SINGAPORE SELECTS THALES FOR NEXT-GENERATION AI-POWERED AIR TRAFFIC MANAGEMENT SYSTEM SERVING ONE OF ASIA'S BUSIEST AIRSPACES

News / Airports / Routes

The Civil Aviation Authority of Singapore has awarded Thales a landmark contract to develop a new NexGen Air Traffic Management System (ATMS) and air traffic control radars, marking a major step towards a more efficient, safer and more sustainable aviation ecosystem. The NexGen ATMS will replace the current LORADS III system with Thales' TopSky – ATC Onesolution. The project also covers knowledge transfer including through having CAAS officers join the project office in France and other localisation projects in Singapore. ?

Pascale Sourisse, Senior Executive Vice-President, International Development commented: We are honoured to continue our long-standing partnership with CAAS on such an ambitious programme for Singapore. NexGen ATMS represents a new chapter in Singapore's air traffic management. Thales' strong installed base and our joint experience delivering transformative projects with CAAS, such as LORADS III, have enabled us to test, co-innovate, and develop future-ready solutions that will support the safe and efficient management of air traffic for years to come."

A next-generation system to support the growth of regional air traffic

As Singapore prepares to meet rising demand for air travel, the NexGen ATMS will play a pivotal role in introducing a fully integrated, AI-enabled air traffic control environment. At the heart of the system is TopSky – ATC One, Thales' next-generation automation solution, which equips air traffic controllers with real-time decision-support tools, streamlined workflows, and a highly intuitive human-machine interface. Powered by TopSky – Sequencer, an AI-based sequencing solution, the system optimises aircraft arrival and departure flows, significantly reducing delays, fuel consumption, and carbon emissions.

The NexGen ATMS incorporates the latest cybersecurity technologies, in compliance with the standards of both the International Civil Aviation Organization (ICAO) and Singapore. The platform's open architecture ensures future scalability, enabling seamless upgrades and the integration of third-party solutions as aviation technologies continue to evolve.

Enhanced surveillance through advanced radar and non-radar technologies

In addition to upgrading the ATMS, Thales will deploy two next-generation air traffic control radars, providing 24/7 aircraft detection capabilities, even in the most challenging weather conditions. The integration of these radars into the NexGen ATMS architecture will enhance situational awareness, ensuring air traffic controllers have access to the most accurate and reliable data to manage flights.

30 JULY 2026

ARTICLE LINK:
https://50skyshades.com/index.php/news/airports-routes/singapore-selects-thales-for-next-generation-ai-powered-air-traffic-management-system-serving-one-of-asias-busiest-airspaces