

SkyDefender, the integral air and missile defense dome

In today's world, air and missile threats are evolving faster than ever. From slow-moving drones to hypersonic missiles, attacks are becoming more complex, overwhelming, and unpredictable. Nations, critical infrastructure, and military forces need a defence system that can adapt, detect, and defeat every threat, no matter how sophisticated and saturating.

That's where SkyDefender, Thales' multi-layer and multi-domain integrated air and missile defence system, comes in.

SkyDefender is an all-in-one defence system designed to protect against any type of air threats. Its network of sensors and effectors across all domains (air, sea, land, cyber and space), alongside the command and control (C2) capabilities that are available in fixed, deployable and mobile configurations, ensure that any threat is both quickly detected and rapidly neutralised.



How it works

SkyDefender combines a network of state-of-the-art radars and effectors that work together to protect all airspace layers:

- The ForceShield solution protects against diverse very short or short-range threats including drones;
- SAMP/T-NG offers theatre protection with an engagement range of up to 150 km;
- The SMART-L MM, the Tactical UHF and new UHF GA5000 advanced long-range radars can detect potential threats at distances of up to 5,000 km. When associated with surveillance satellites, they provide early warning, ensuring critical threats are identified as soon as possible.

All SkyDefender components are managed through the SkyView airspace C2 system. The SkyView Alliance version, deployed across NATO, guarantees seamless interoperability with allied multi-domain C2 platforms, as well as with a wide range of radars and defence systems. SkyView is already operational within the NATO Ballistic Missile Defence Operational Centre, demonstrating its proven integration and effectiveness in real-world missions.

Flexible and future-proof

Built on an open, modular architecture, SkyDefender integrates easily with existing defences and can grow as threats evolve. Combining Thales' expertise as a system integrator and advanced artificial intelligence and cyber, SkyDefender enables operational superiority and stays ahead of cyberattacks and evolving dangers.

SkyDefender is fully compatible with a wide variety of sensors and weapon systems, including those from different manufacturers and existing legacy platforms. This design makes it easy to add new mission capabilities in the future, such as intelligence, surveillance and reconnaissance (ISR), deep strike operations against ground targets, and advanced air defence missions. Furthermore, SkyDefender's ability to integrate with a nation's current defence systems—combined with Thales' strong partnerships with local industries—enables countries to strengthen and maintain their strategic sovereignty.

Most importantly, SkyDefender is already proven in real-world operations. Thales is rapidly scaling up production to deliver this crucial protection wherever and whenever it's needed—fast.

