TPY-4 Radar for Sweden: A New Chapter for Swedish Air Defense

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On June 5, 2025, the Swedish Defense Procurement Agency, Försvarets materielverk (FMV), signed a significant agreement with Lockheed Martin for the purchase of the TPY-4 radar, a long-range air surveillance system aimed at enhancing Sweden's defensive capabilities. This agreement marks a fundamental shift in strengthening the country's national security, addressing the growing needs of the Swedish Armed Forces in terms of early warning and air situation awareness. The TPY-4 is part of a broader program to modernize Swedish surveillance infrastructure, intended to replace the now obsolete PS-861 radar.

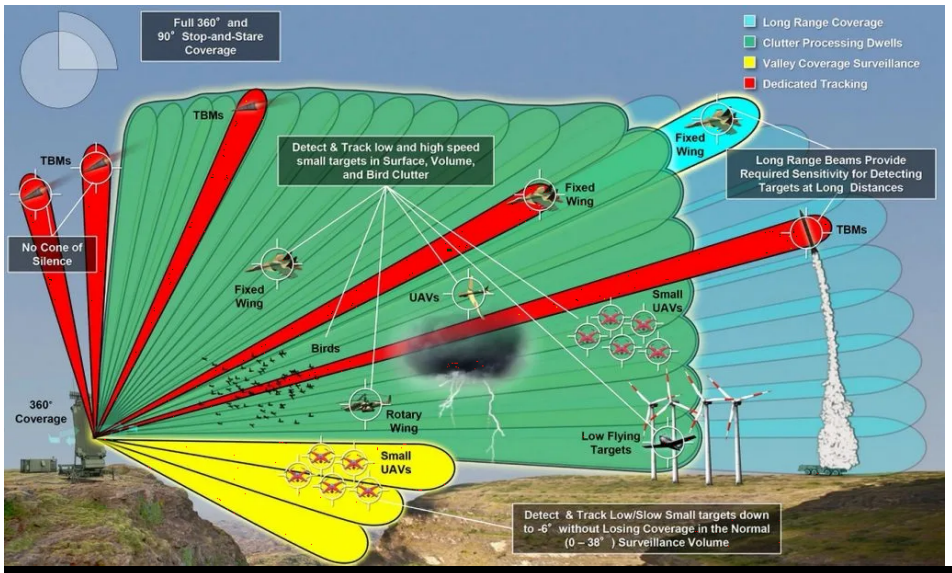
Sweden is the third country to choose this advanced radar system, following the United States and Norway, thus further establishing the AN/TPY-4 as a strategic surveillance tool within the NATO context. Thanks to its advanced capabilities, the TPY-4 not only boosts Swedish defenses but also represents a decisive step towards consolidating international alliances in a period of

increasing geopolitical uncertainty.

The Advanced Capabilities of the TPY-4 and Its Role in National Defense

The AN/TPY-4 is a 3D L-band radar that uses an active electronically scanned array, made with gallium nitride, to ensure precise detection of aerial targets. This radar is designed to intercept a wide range of threats, from low-profile drones to ballistic missiles, thanks to its extraordinary range. The system offers 360° coverage with a range of 555 km and, in stop/stare mode, can detect objects up to 1,000 km away.

One of the distinctive features of the TPY-4 is its ability to operate in a six rotations per minute mode, ensuring continuous and real-time surveillance. These capabilities make the radar a formidable ally against all types of aerial threats, with a particular focus on new risks, such as drones and ballistic missiles, which require advanced detection technologies.



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The TPY-4 radar is not just an advanced air defense system, but a key element in improving early warning and air situation awareness. With its help, Sweden can quickly respond to emerging threats, reducing the risk of surprise attacks. Thanks to its ability to integrate data from other defense systems, the TPY-4 allows for a coordinated and timely response against a variety of threats, thereby strengthening national defenses.

International Collaboration and Future Implications

Another fundamental advantage of the TPY-4 is its compatibility with existing air defense systems, not only in Sweden but also among NATO allied countries. Lockheed Martin designed the radar with an open architecture that allows seamless integration with other defense systems, enhancing interoperability between the Swedish armed forces, regional partners, and international allies. This ability to work together with other surveillance and defense systems is a crucial element in addressing modern threats that often require a coordinated large-scale response.

The total value of the contract is about one billion Swedish kronor (91.3 million euros), with options for the purchase of additional radar systems. Sweden will receive the first TPY-4 in 2027, followed by deliveries to the Swedish Armed Forces. This acquisition will not only improve Swedish national security but will also have a positive impact on its international relations, consolidating cooperation with the United States, Norway, and other NATO members.

Rick Cordaro, Vice President of Radar and Sensor Systems at Lockheed Martin, emphasized the importance of this collaboration, stating that the TPY-4 radar represents a significant step in integrated deterrence and strengthens interoperability among NATO members. Sweden's choice to adopt the TPY-4 highlights the country's commitment to strengthening its security in a context of increasingly complex and evolving global threats.

The introduction of the TPY-4 into the Swedish Armed Forces not only reinforces national air defense capability but also confirms the importance of international cooperation in combating common threats. With the purchase of this advanced radar, Sweden is preparing to face future challenges with a highly sophisticated surveillance system interconnected with its allies, thereby increasing its position of strength in global security.

News link: https://aresdifesa.it/radar-tpy-4-per-la-svezia/