The new digital secondary radar for safer skies
RSM NG

New digital Meta Sensor combining MSSR Radar architecture and fully integrated redundant ADS-B

- Contributing to Safer Air Traffic Management
- Full digital for enhanced performances
- Ready for today and tomorrow’s environment
- Cyber Secured by Design
A Digital Meta Sensor

RSM NG is not only the latest Monopulse Secondary Surveillance (MSSR) Radar, it is a digital Meta Sensor combining the following sensors:

- **Enhanced Mode S (EHS)**
  Ensuring quality, integrity and availability of data provided to controllers, contributing to aircraft 3 NM separation standard.

- **Integrated redundant ADS-B**
  Allowing simultaneous reception of ADS-B Extended Squitters and improving Mode S tracks initialization.
  In a world where every second counts, reports from aircraft are rapid and reliable, making airspace situational awareness quickly available.

Cybersecurity onboard

Based on international standards the RSM NG is Cyber Secured by design and provides a unique interface for the control of Cybersecurity functions, while always preserving radar operational behavior thanks to a Cybersecurity Virtual Machine.

Ready for tomorrow’s world

- **Flexible for today and future environment constraints**
  The RSM NG helps alleviate radio frequency congestion with:
  - Reduction of Radio Frequency pollution
  - Minimized re-interrogations
  - Interference map and strobe signal

- **Digital**
  The advanced digital architecture of the RSM NG is open for simpler future enhancements or upgrades.

- **Optimized for easier maintenance**
  The RSM NG has been re-engineered to limit life-cycle costs providing:
  - a very compact design with 30% reduction in weight and volume
  - an increased reliability limiting the number of spares required
  - an easier installation with only 2 coupled cabinets.

RSM NG also features HUMS capacities (Health Usage & Monitoring System) for optimized maintenance.

Thales, a world leader in secondary radar and ADS-B

With more than 50 years of experience in secondary radars, Thales is continuously investing to support our leadership position of ATC systems. More than 900 ATC radars and 2,300 Thales ADS-B and MLAT ground stations are installed all around the world.