Thales BlueGate tri-service IFF solutions deliver the best in class, modern identification friend or foe capability. BlueGate solutions are fully compliant with civil standards (in particular Mode S) and military NATO/US standards (Mode 4 and new Mode 5) as well as National Secure Mode (NSM) with the highly secure MX5 capability.

With its comprehensive BlueGate IFF portfolio Thales offers customized and cost effective solutions either for new platforms (air, ground, naval) or retrofit programmes and provides versatile service range from equipment supply to global fleet retrofit.
**AIR**

- Designed for all aircraft: fighters, helicopters, transport/mission aircraft, trainers and UAVs
- Versatile interfaces available and cost compatibility
- Full access to General Air Traffic (GAT) thanks to compliance with ICAO/Eurocontrol FAA rules and to TCAS change 7.1
- Already onboard more than 70 different types of aircraft

**AIR DEFENCE**

- NATO compliant solutions for all air defence platforms: prime contractors, vector-based, medium range, medium-range or long-range or SCA
- Full digital architecture: high performance, model-based software, integration with all TSC equipment
- Scalable solutions for medium-long range applications (up to 2.5 kW emitting power)
- Already integrated with many portable and short-range air defence systems

**NAVAL**

- Complete portfolio with navalized solutions (Transponders, Interrogators, CITs) for all types of ships including new fast small patrol boats and submarines
- Dedicated stand alone control panel to ease integration with complex Combat Management Systems
- High reliability thanks to very integrated solution as Combined Interrogator Transponder

**EQUIPMENT**

- THALES offers a complete range of fully interoperable digital IFF equipment for airborne, shipborne and ground platforms: Transponders, Interrogators and CIT. This BlueGate IFF family includes the NATO STANAG 4193 and US DoD AIM-03-1000 MKXIIA standards that gather modes 1, 2, 3/A, C, 4, and the modern encrypted mode 5 (M5) up to level 2, enabling unlimited access to the future US/NATO operations. It also provides full compatibility with FAA/Eurocontrol civil requirements to the latest ICAO amendments for mode S (MS) up to level 3, enabling seamless operation with the civilian traffic. THALES BlueGate IFF solutions have received worldwide acknowledgment and demonstrate operational efficiencies.

**INTEGRATION**

- THALES has worldwide experience of IFF equipment integration onboard all types of platforms. From complex integration with surface or airborne radars to simple transponder integration. Thanks to compact size and modular design, seamless integration is achieved with adapted solutions to each platform. During all integration tasks including the flight tests, the THALES team of skilled and experienced engineers are able to support the platform integrator.

**TRI-SERVICE**

- THALES offers complete tri-service capability including prime contractorship responsibility. In this à la carte scheme, THALES manages the different platform, authorities and industrials, covering design, integration, onboard test and logistic support phases, in order to ensure to the customer that the installed performance will meet the requirements. MS/M5 global retrofit contracts are very well suited to such organisations which ensure optimisation of the whole life cycle cost.

**NSM / M5X**

- THALES offers the most modern end-to-end National Secure Identification (NSM) solutions that feature the highly secure M5X capability. THALES offers may include: Cryptographic National Lab with training and know-how transfer to allow in-country customisation of the M5X algorithm and crypto keys; key distribution network; M5X crypto computer units and a complete range of secure ancillaries. Proposed in partnership with local companies, the M5X NSM solution delivers a highly secure national identification capability giving to the customer total sovereignty over its own operations.
• Manpads: Stinger, Mistral, RBS70, Igla
• Merads: Crotale, Giraffe, Ocean Master
• Lorads: Gap Filler, Master T, GM400
• Naval Radars: Variant, Smart-S, Herakles
• Fighters: Rafale, Gripen, MIG-29, SU-30
• Helicopters: NH90, Tiger, CH47, Mi-8/17
• Trainers: AlphaJet, Hawk Jet
• UAVs: Heron, Hermes, Hunter, I-view
• Mission Aircraft: C130, CN-235, AWACS, MRTT