Tri-Service IFF
Identification Solutions
Interoperable, Secure, Multi-platforms
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 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.
A GLOBAL OFFER

**AIR**
- Designed for all aircraft: fighters, helicopters, transport/mission aircraft, trainers and UAV
- Versatile interfaces available and costing 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 types: man portable, very/short range, medium range or long range air defence systems
- Dual NATO MKXIIA/Eurocontrol Mode S performance solutions enable seamless integration with the civilian SSR
- Scalable solutions for medium/long range applications (up to 2.5 kW emitting power)
- Integrated on almost all man-portable and short range air defence systems

**NAVAL**
- Complete portfolio with navalized solutions (Transponders, Interrogators and CITs) for all types of ships including new fast small patrol boat 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
- Already integrated with many naval radars including Thales Smart S, or E-Scan antenna

Equipment
- Thales offers a complete range of interoperable digital IFF equipment for airborne, shipborne and ground platforms: Transponders, Interrogators and Combined Interrogator Transponders (CIT).
- This BlueGate IFF family features the NATO STANAG 4193 and US DoD AIMS 03-1000 MKXIIA standards that gathers 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 civilian requirements to the latest ICAO amendment for mode S (MS) up to level 3, enabling seamless operation with the civilian traffic.
- Thus Thales BlueGate IFF enable minimisation of fratricide, and increased operational effectiveness.

Integration
- Thales has a 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 reached with adapted solutions to each platform.
- During all integration tasks including the flight tests, the Thales teams of skilled and experienced engineers are able to support the platform integrator.

Tri-service
- Thales offers a 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 ensures optimisation of the whole life cycle cost.

National Secure Mode
- Thales National Secure Mode (NSM) provides turnkey end-to-end National Secure IFF solutions equivalent to the latest NATO Mode. Thales NSM offers include:
  - Cryptographic National Lab including training and know-how transfer to allow in-country development of the NSM algorithm,
  - Tools for National crypto key generation and distribution,
  - NSM crypto computer units and full range of secure ancillaries.
- Proposed in partnership with local companies, the NSM solutions deliver a highly secure national identification capability giving to the customer total sovereignty over its own operations.

**FRIEND**

**FOE**
Tri-Service IFF
Identification Solutions
Interoperable, Secure, Multi-platforms