

RADIOCOMMUNICATION PRODUCTS AND SOLUTIONS

TRI SERVICE IFF Identification Solutions

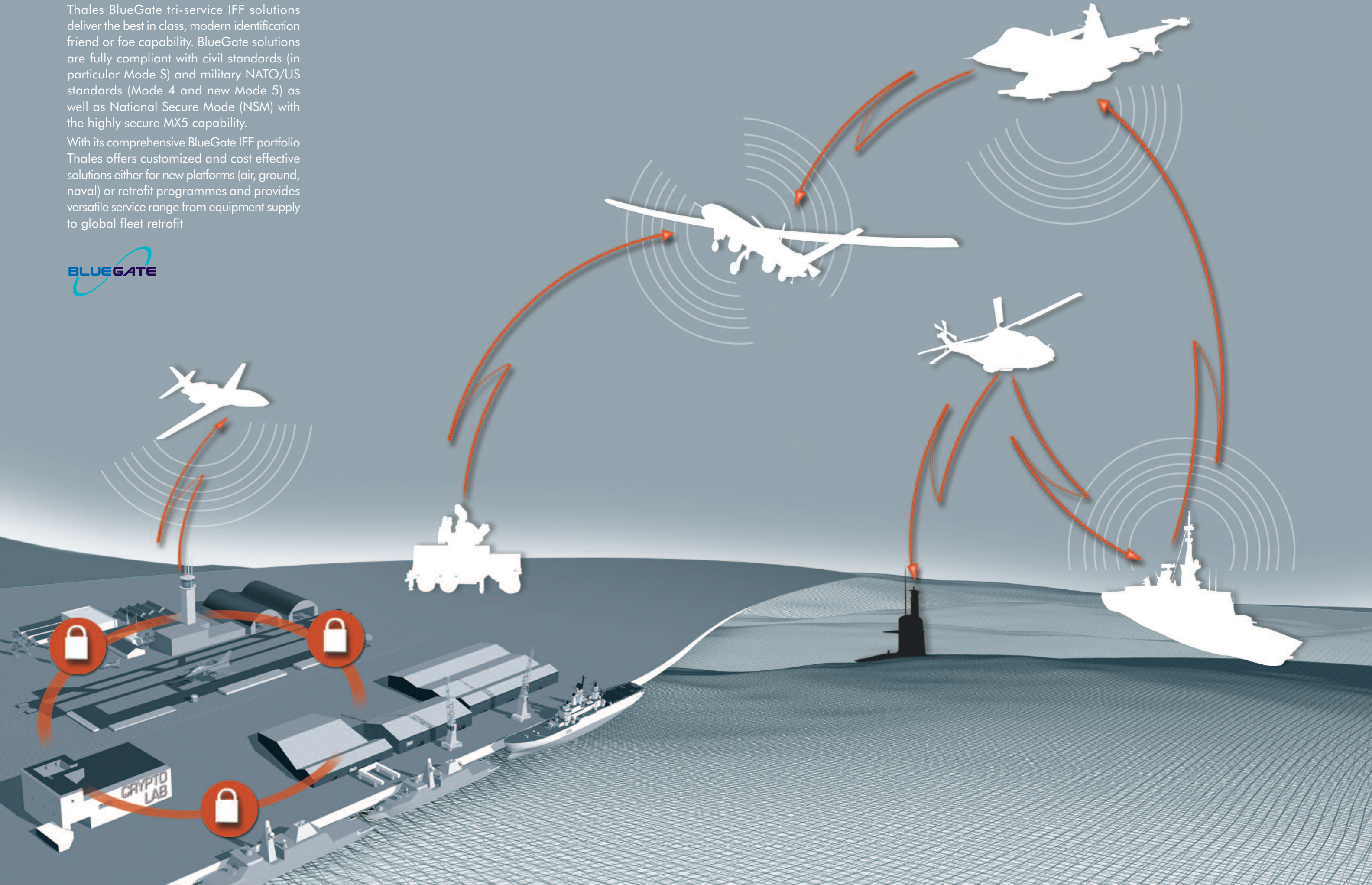
Interoperable, Secure, Multi-platforms



TRI-SERVICE

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



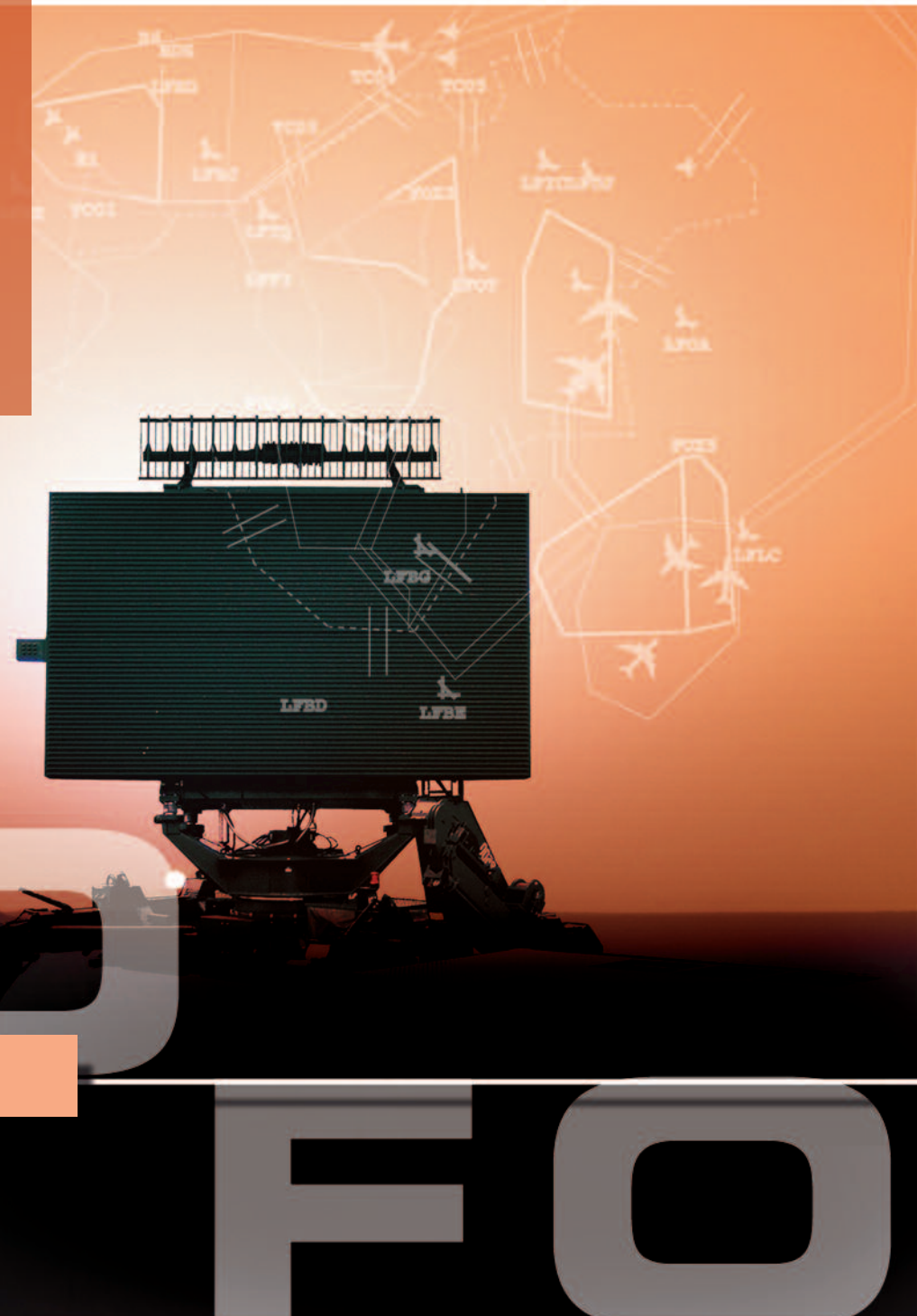
AIR

- Designed for all aircraft: fighters, helicopters, transport/mission aircraft, trainers and UAV
- Versatile interfaces available and co-siting 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



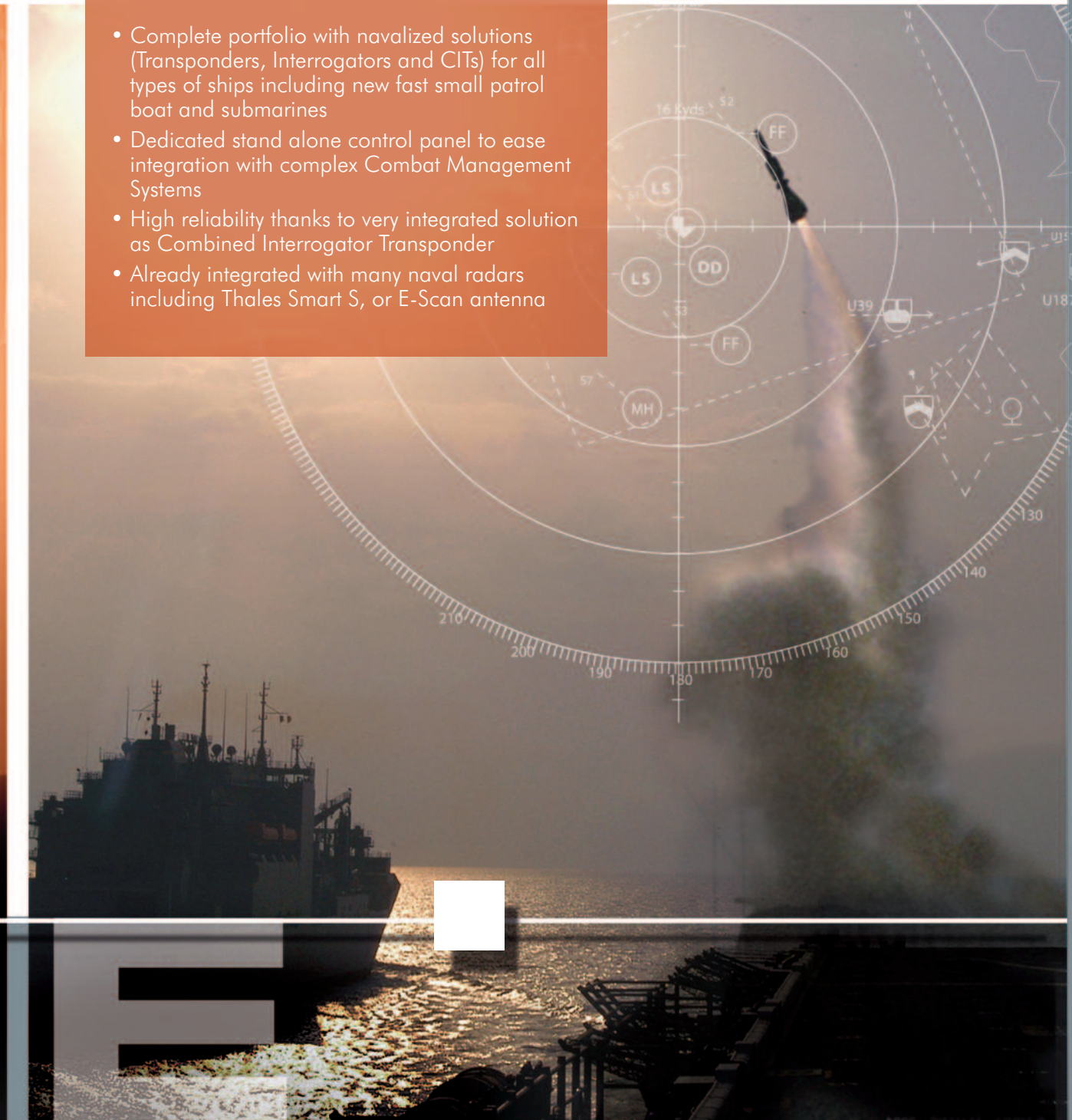
AIR DEFENCE

- 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 fully interoperable digital IFF equipment for airborne, shipborne and ground platforms: Transponders, Interrogators and Combined Interrogators 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 industrial, 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.

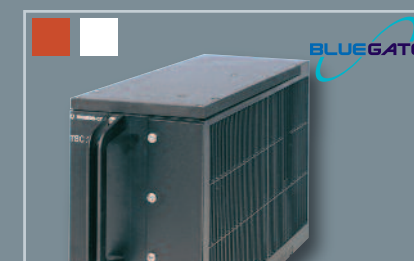
NSM / MX5

THALES offers the most modern end-to-end National Secure Identification (NSM) solutions that feature the highly secure MX5 capability. THALES offers may include: Cryptographic National Lab with training and know-how transfer to allow in-country customisation of the MX5 algorithm and crypto keys; key distribution network; MX5 crypto computer units and a complete range of secure ancillaries. Proposed in partnership with local companies, the MX5 NSM solution delivers a highly secure national identification capability giving to the customer total sovereignty over its own operations.

TSC 1430
Light IFF Transponder



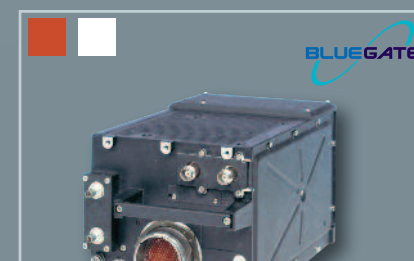
TSC 2000
IFF Transponder



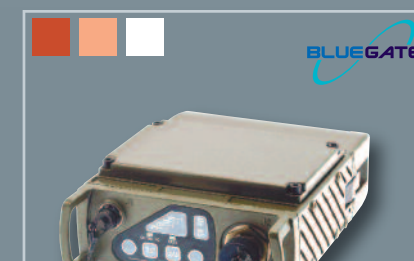
M12 1565
M12 M12 1565
TSC 2030
Panel Mounted IFF Transponder



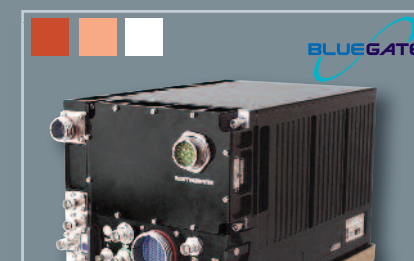
TSC 2050
Remote Control IFF Transponder



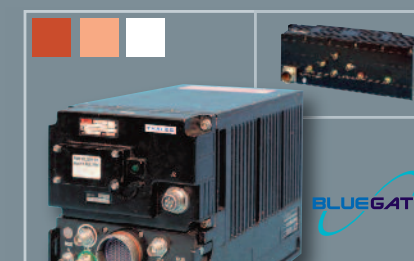
TSA 1400-1U
Manpads and V/Shorads Interrogator



TSA/TSB 2520/2540
MERADS, LORADS IFF Interrogator/CIT



TSB 2510
E-Scan IFF CIT



TSA/TSB 3520
MERADS, LORADS IFF Interrogator/CIT



KIV-77
M4/M5 Cryptographic Unit



TSK 4030/4040
IFF Cryptographic Transponder / CIT Units



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