

Thales on the Land Defence market





Hawkei ©Australian Dept of Defence

Military operations on the ground are changing fast, so land forces are constantly in need of new information, communication and combat solutions. Thales is responding to these changes with a range of equipment, systems, software and services to help land forces gain and maintain operational superiority. With solutions including optronic equipment for soldiers and vehicles, advanced munitions and a full range of services, Thales is the only European contractor with such a comprehensive range of systems for land forces.

Thales is **European leader in defence electronics** and **N° 2 worldwide in defence communications**.

Thales' offers is designed to meet the specific needs of land forces:

- vehicles and vehicle support solutions for all mission types
- soldier optronics, communications and identification solutions
- interoperable vehicle systems, command posts and C4ISR solutions
- weapon systems and munitions
- end-to-end through-life support services
- mission training services

Vehicles

More than **50 land forces** are equipped by Thales throughout the world.

The **Bushmaster armoured patrol and combat support vehicle** has consistently demonstrated its capabilities, in particular its resistance to land mines and IEDs, in Iraq and in Afghanistan, where it has been deployed by the Australian armed forces and other coalition partners. **Some 1,000 of these vehicles** have been manufactured to date.

In October 2015, the Australian government selected the Hawkei vehicle from Thales for its new lightweight protected mobility vehicle programme. **The contract covers the delivery of 1,100 vehicles and more than 1,000 trailers.** With its innovative design and vehicle architecture, Hawkei offers superior performance, reliability and force protection. It is the latest vehicle to join the Australian

Defence Force's fleet of protected mobility vehicles.



As part of a project consortium with Nexter Systems and Renault Trucks Defense, Thales has also been awarded the contract for the EBMR multirole armoured vehicle (Engin Blindé Multi Rôles). The contract includes the delivery by the Temporary Business Grouping of 1,668 GRIFFON vehicles and 248 JAGUAR engines to the French Army, as well as the associated logistic support facilities.

The GRIFFON Multi-role Armored Vehicle and the JAGUAR Armored Reconnaissance and Combat Vehicle, both of which benefit from a high level of protection, respectively replace the VAB and the AMX10RC, the SAGAIE ERC and the VAB Hot, used intensively by the Army for over thirty years.

Thales is in charge of the vetronics subsystem, and will develop and manufacture the Scorpion common vetronics solution, communication solutions, perimeter vision system, self-protection suite and navigation system for all variants of the EBMR. In addition, Thales is responsible for the sensor payload for the VOA artillery observation vehicle (Véhicule d'Observation de l'Artillerie), which comprises a day/night sight with a laser target designator mounted on a telescopic mast and coupled to a GO12 radar.

Communications systems

> Military radiocommunications

At Eurosatory 2016, Thales announced the launch of **SYNAPS**, the new broadband tactical software-defined radio family designed to support battlespace digitisation and C4I systems. In addition to hierarchical communications, **SYNAPS** provides a unique collaborative combat capability based on real-

time horizontal communications between all the units on the ground. Building on the **CONTACT** system, the largest software-defined radio programme in Europe, Synaps is designed for international markets and meets the requirements of all the armed forces.

> In the last 30 years, Thales has sold over 800,000 tactical radios in more than 50 countries.

> Military satellite communications

Thanks to a unified transmission system built around **System 21**, Thales's solutions offer **universal access** to satcom services. Thales solutions can be integrated into all types of platform (air, land and sea) with no trade-off in performance to provide guaranteed interoperability between all the different components of a force deployment. Thales's secure satellite communication solutions are used by **NATO and more than 10 countries** around the world.

Optronics solutions

Building on 80 years of experience in high precision optics, Thales offers a comprehensive range of night vision devices. With 100,000 devices in operation worldwide, Thales is the leading manufacturer of night vision devices for pilots and dismounted soldiers in Europe.

At Eurosatory 2016, SCROME and Thales launched **Cecile-TS**, a **new family of thermal weapon sights for snipers and marksmen**. Drawing on Thales's extensive experience in infrared night-vision cameras and SCROME's expertise in designing optical and mechanical sights capable of operating in the most severe conditions (impact, extreme weather and climate, etc.), Cecile-TS is **the most advanced thermal weapon sight on the market today**.



CECILE-TS @Thales

BONIE-D/IRR is an image intensified (I²) night vision goggles associated to an uncooled thermal (IR) imaging module which allows to fuse thermal and intensified images. This innovation by Thales offers to the soldier new capabilities essential to modern warfare. We add to BONIE-D/IRR the possibility to visualize specific data (Compass, GPS...) in augmented reality allowing a better mobility and communication on the field.



BONIE-D/IRR @Thales

> Over 100,000 Thales night vision goggles are in service worldwide.

Operational command systems

Information superiority is key to mission success for modern armed forces. Thales designs **C4ISR systems** (Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance) that enable armed forces to gather the critical information needed to maintain **information superiority** on all types of missions. The success of modern combat operations hinges on a comprehensive C4ISR capability.

At Eurosatory 2016, Thales announced the commercial launch of **Digipack**, a turnkey **digitisation solution for protected vehicles** designed to provide combat forces with the information superiority they need. Digipack is supplied as a **ready-to-deploy** digitisation kit including a battlefield management system, tactical radio and intercom system. It is designed for ground units and special forces and is suitable for any type of platform.

Weapon systems and munitions

TDA, a wholly owned Thales subsidiary, produces infrastructure protection systems for forces deployed overseas as well as a range of armaments to destroy or disable different types of land threats.

In July 2016, the French defence procurement agency (DGA) awarded TDA a contract to provide laser-guided induction rocket with submetric precision (ACULEUS-LG) for French Army light aviation (ALAT). The laser-guided rocket rounds out the existing range of ACULEUS munitions, which includes a training/marketing rocket, a sub-projectile rocket and a high-explosive dual-mode Impact-Airburst rocket. These capabilities may one day expand with tactical target marking, anti-UAV or infrared illumination.

STARStreak is a system which comprises missiles, the world's fastest very short range air defence (VSHORAD) missile and the

Lightweight Multiple Launcher (LML). The LML tripod-based system allows swift deployment of STARStreak missile to deal with attacks from low-level fighter aircraft, Unmanned Air Vehicles (UAVs) and attack helicopters.



STARStreak @Thales

In 2017, Thales expands its range of air-launched laser-guided weapons. **BAT120** is a lightweight (35 kg) weapon with low operating costs. This 120 mm precision strike system can be fired at medium and high altitudes. No major modifications to the aircraft are needed because the BAT120 uses the fire control system of a laser-guided weapon



BAT120 @Thales

> Thales has supplied over 80,000 missiles to more than 70 armed forces worldwide.

Mission training services

CERBERE solution enables modern armed forces to track and analyse every phase of a tactical engagement when training for the digitised battlefield. The CERBERE programme positions Thales as a world leader in new-generation simulation systems for live combat

training, with a diversified range of innovative solutions for operations in both urban areas and open terrain.

With the SCORPION programme to upgrade the French Army's warfighting capabilities and replace its vehicle fleets, the future CONTACT software-defined radio and increasing battlefield digitisation, training requirements are changing. In particular, infrastructure features and equipment need to be specially instrumented to support collaborative combat training. The CERBERE instrumentation contract enables the French Army to make the best possible use of simulation, which now plays a crucial role in instruction, training and mission preparation.

Last News

January 2017 (France): Thales has won the CERBERE contract to upgrade the instrumentation for the French Army's live combat training centres. It is an innovative approach leveraging the latest civil communications technologies and indoor/outdoor positioning systems.

April 2017 (Denmark): The Danish Defence and Logistic Organization (DALO) signed a framework agreement with Thales concerning the acquisition of the vehicle communication system SOTAS, as well as services for the equipment delivered.

April 2017 (France): 24 April 2017 - The French Procurement Agency (DGA) placed the first production order with Nexter, Renault Trucks Defense and Thales for 319 GRIFFON and 20 JAGUAR vehicles as part of the Multi-role Armored Vehicle contract. This contract includes logistic support and the associated training.

May 2017 (France): Inmarsat and Thales, executed a series of tests that successfully demonstrated communications using Thales' System 21 on Inmarsat's Global Xpress (GX) high-capacity steerable antennas. These tests illustrate the ability of Thales's System 21 modem to support resilient, protected and secure, high-data-rate connectivity for mission-critical military and government users.

June 2017 (France) : Thales is partnering with the French defence procurement agency (DGA) to develop the capabilities of the BAT120, a combat proven weapon system already qualified on the Mirage 2000.

July 2017 (France): First parade on the Champs-Élysées for the Army's future connected armored vehicle. This first dynamic demonstration of the VBMR, whose development, manufacture and vehicle support contract was awarded by the French Defence Procurement Agency (DGA) in December 2014 reflects the concrete advances of the Scorpion programme.

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