

Force Awareness & Protection

The Force Awareness & Protection business undertakes design, development, integration, supply and support of systems and products in the areas of C4ISREW and Weapons Systems. Key capabilities include:

- Communications
- Command Support
- Electronic Warfare
- High Frequency (HF) Surveillance
- Autonomous Systems
- Weapons Systems
- Geospatial Information



Communications

BAE Systems Australia provides and supports a broad range of communications systems and products including:

- RAVEN HF and VHF Combat Net Radio System
- Wagtail VHF Radio
- PARAKEET Trunk Communications System
- ROVIS Vehicle Intercommunications System
- JP2008 Advanced SATCOM Terrestrial Infrastructure System (ASTIS)
- Ground air communications and air traffic control systems for the RAAF
- Personal Locator Beacons (PLB) for the Australian Defence Force

Command Support

BAE Systems Australia also supplies a range of specialist communications devices such as:

- Deployable ATM Hub Assembly (DAHA)
- Digital Subscriber Line Fibre Interface (DSLFI)
- Liaison Officers Briefcase Systems (LOBS)
- Mercury Messaging Systems
- Ruggedised Transport Case (RTC)
- Spread Spectrum Fibre Interface (SSFI) and the Trusted Filter (Data Diode)

BAE Systems Australia also provides support and on-going development of the Combat System previously supplied to the RAN's Huon Class Minehunters.



Electronic Warfare

BAE Systems Australia is a leader in electronic warfare systems design, development and support, delivering an indigenous electronic warfare capability providing the Australian Defence Force with surveillance and self protection systems. These include the ALR-2002 Radar Warning Receiver, the Passive Radar Identification System (PRISM), Electronic Support Measures (ESM), the Echidna Electronic Warfare Self Protection and the complete Electronic Warfare suite for Wedgetail AEW&C.

HF Surveillance

High Frequency radar systems, signal processing, receiver systems development and SIGINT are BAE Systems Australia's capabilities that support the operations and on-going development of Australia's Over The Horizon Radar (OTHR) capability. Through its Jindalee Facility Alice Springs (JFAS) contract, BAE Systems Australia is integrating new technology to extend its capability to support ballistic missile defence.

To further support the ongoing development of Australian OTHR technology, BAE Systems Australia is a capability partner on the OTHR Centre of Excellence based in Adelaide, South Australia.



Autonomous Systems

BAE Systems Australia is at the forefront in developing new technologies and systems for unmanned and autonomous operations supporting Intelligence, Surveillance & Reconnaissance (ISR) missions. The Autonomous Navigation & Surveillance Experimental Research (ANSER) program, together with the Unmanned Aerial Vehicle (UAV) Experimental System, has led to the development of advanced Decentralised Data Fusion (DDF) and Simultaneous Location and Mapping (SLAM) technologies underpinning future ISR systems. These technologies are being further developed through Concept Technology Demonstrators (CTD) for both DDF and Future UAV Reconnaissance & Interdiction (FURI) requirements.

BAE Systems Australia has also developed an ISR Management System (IMS) which provides an open and scalable architecture. This allows a wide range of mature commercial and military ISR management applications to be easily integrated together to support operations in land, sea and air domains.

Weapons Systems

BAE Systems Australia has unrivalled capabilities in ship air defence and guided weapon systems. It is prime contractor for the Nulka Active Missile Decoy System and the Australian principal in the Raytheon led Evolved Sea Sparrow Missile consortium. The company has also developed a Ship Air Defence Model (SADM), a sophisticated simulation and modelling software tool that allows the user to evaluate the effectiveness of naval combat systems in the air warfare environment.

In addition, BAE Systems Australia supports and maintains the Stonefish exercise mine for the Royal Australian Navy (RAN).

BAE Systems Australia provides software support for the operational Advanced Short Range Air-to-Air Missile (ASRAAM) for the Royal Australian Air Force (RAAF).

Geospatial Information

BAE Systems Australia supplies:

- Geospatial information product development and quality assurance
- Acquisitions processing and archiving of satellite remote sensing data of Australia and its environs

It also provides product sales and support services to San Diego based Geospatial Exploitation Products group.



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