

ADM DEFENCE WEEK

AUSTRALIAN DEFENCE MAGAZINE

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PREMIUM EDITION



Greece has expressed interest in buying HMAS *Melbourne* and *Newcastle*.

DEFENCE

Greece shows interest in buying RAN FFGs

Ewen Levick | Sydney

Athens has sent an expression of interest to Defence to buy the RAN's two remaining Adelaide-class FFG frigates, HMA Ships *Melbourne* and *Newcastle*, ADM can confirm.

Greek Minister for Defence Evangelos Apostolakis referenced the move during a [press conference](#) attended by local media in late December.

Minister Apostolakis said the Adelaide-class, a modified version of the US Oliver Hazard Perry class, is one of three options under consideration as an interim capability for the Hellenic Navy. Other possibilities include American LCS frigates or the French La Fayette class.

"Defence has received expressions of interest from the Hellenic Navy, as well as other countries in relation to the Adelaide class frigates," a Defence spokesperson said to ADM.

Greece is currently looking to expand its naval presence in the eastern Mediterranean as tensions with

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Turkey grow over regional natural gas exploration. Cyprus has granted drilling rights to a number of foreign companies, with ExxonMobil expected to shortly begin drilling in Cyprus' Exclusive Economic Zone – a move Turkey has warned against.

Ankara has previously [used warships](#) to prevent Italian company ENI from drilling at a site not far from Exxon's license.

A report by [Ptsisi Magazine](#) indicates that Greece also intends to use the ships to leverage its position as a 'bridge of cooperation' between the US and Egypt.

The attractiveness of the Adelaide-class largely rests on upgrades received under the Sea 1390 program, which added medium range surface-to-air Evolved Sea Sparrow Missiles (ESSMs), SM-2 Block IIIA long-range air defence missiles and associated sensor and combat system enhancements. The ships are the first Australian vessels powered by gas turbines and can move from cold in less than 30 minutes.

Sources indicate that Greece may seek an end-to-end user certificate from the US to acquire the SM2s and ESSM missiles with the Australian ships. *ADM* understands, however, that RAN is unlikely to include weapons with a potential sale.

The most recent FFGs to be decommissioned are ex-HMA Ships *Sydney* and *Darwin*, with the former taken apart and the latter sunk as a dive wreck off Tasmania. Ex-HMAS *Darwin* was the first Australian ship to deploy to the Persian Gulf.

Three new Hobart-class guided missile destroyers are replacing the Adelaide-class. Two have been commissioned into RAN service with the third due this year.

ADM understands that the Minister's remarks have preceded a possible visit to Australia by Greek representatives.

"Defence treats all expressions of interest on disposals as 'in-confidence' unless otherwise agreed with the relevant country, and does not comment on the details of subsequent discussions or negotiations," the Defence spokesperson said.

"Any decision regarding the purchase of Adelaide class frigates from Australia is a matter for the relevant foreign government.

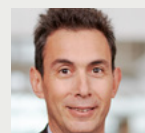
"Once withdrawn from service, Defence has no plans to retain the Adelaide class frigates."

Poland [officially expressed interest](#) in buying the last Adelaide-class vessels in 2017 but negotiations have reportedly since fallen through.

"The Adelaide-class is one of three options under consideration as an interim capability for the Hellenic Navy"

PEOPLE ON THE MOVE

Airbus has appointed Mr Jean-Marc Nasr as President Asia-Pacific, effective 1 January 2019. Based in Singapore, Jean-Marc Nasr will be responsible for Airbus' overall strategy, industrial footprint and operations in the region.



Spartans to resume operations from new home

Julian Kerr | Sydney

Although 35 Squadron RAAF ceased all flying operations with its 10 C-27J Spartan battle airlifters on 30 November, this was simply a temporary halt linked to the squadron's permanent move from RAAF Richmond to RAAF Amberley.

“Pushing the main operating base to Brisbane provides the ADF more timely access into Southeast Asia”

While much of the squadron's heavy equipment was moved north before Christmas in a series of C-17A Globemaster III flights, its aircraft remained at RAAF Richmond until early in the New Year because of the volatility of the weather further north.

Several aircraft together with aircrew and support staff were however on standby to handle any short-notice tasking required over the Christmas period and the move.

As of 24 January, five Spartans were ensconced at RAAF Amberley and the balance were expected there before the end of the month.

According to Wing Commander Ben Poxon, a 3,000-hour C-130J pilot who has headed 35 SQN since December 2017, the move will be completed by 10 February and the squadron will resume normal operations.

The decision to shift the squadron from Richmond to Amberley was approved by government in 2015 – about the same time as the first of the C-27Js arrived at Richmond.

“This was primarily for geographic reasons,” WGCDR Poxon noted. “Pushing the main operating base to Brisbane provides the ADF more timely access into Southeast Asia for situations like humanitarian assistance and disaster relief.”

Initial Operating Capability (IOC) for the C-27J was achieved in 2016.



A C-27J Spartan from 35 SQN.

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Full Operational Capability (FOC) is scheduled for December this year. By that time, WGCDR Poxon said, Amberley will be firmly established as the main operating base; facilities and a supply system will be in place to enable the required training throughput, and all elements of the squadron will have the capability to supply the rate of effort required to respond to the government's needs.

Some \$300 million of new construction has been completed at Amberley to accommodate 35 SQN, primarily an operating building that groups together aircrew, operations, maintenance, three hangars, and a training facility.

Yet to be received is a full-motion flight simulator whose acquisition is still under negotiation, WGCDR Poxon said.

When this will be available is not clear, although the system may not be installed and certified until 2024.

Meanwhile high level training moved late last year from a simulator operated by C-27J integrator L-3 in Waco, Texas, to a C-27J simulator operated for its own and foreign C-27J aircrew by the Italian Air Force's 46th Air Brigade in Pisa, a significant but presumably not unwelcome change of locale.

More defence cooperation needed with Germany after Brexit

Jacqueline Westermann | Canberra

ASPI has released a [report](#), authored by yours truly, exploring opportunities and limits for Australia to deepen its security and defence ties with European countries following the UK's exit from the EU.

In the report, I argue that the like-mindedness between Australia and Germany bears great potential to increase cooperation.



Corporal Joshua Bock, crew commander of Rheinmetall's Boxer CRV, during Exercise Chong Ju.

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More collaboration would secure Australia's influence in a post-Brexit EU and allow both countries to jointly take on a leadership role to demonstrate their commitment to the challenged international rules-based order.

Both countries, however, will need to leave "common path dependency" when it comes to strategic thinking in order to adjust to current and future global security issues, even when faced with competing regional priorities and resource-constrained environments.

Cooperation on security is as important as trade and cultural exchanges, and there is potential for deeper cooperation in cybersecurity, space security, intelligence and information sharing, as well as for strengthening military ties and defence industry partnerships.

In the report, I argue that a major opportunity exists to "jointly identify and develop counterterrorism measures to protect energy and other critical infrastructure.

"Both countries use whole-of-government approaches, including foreign policy, domestic policy and defence policy in their cyber policy, so they should also collaborate to share solutions."

Moreover, I also argue that Berlin's experience with the Russian government could advance Australia's understanding of Russia's global actions and ambitions, whilst Canberra's expertise in understanding how the Chinese state is using its growing strategic and economic power could be highly valuable to Berlin.

Australia will also need to make better use of its limited diplomatic resources across Europe, especially in regards to strategic thinking and defence planning. This, I argue, could be achieved by assigning specific areas or themes to each embassy.

With Brexit approaching, Australia needs to assign additional defence and defence industry expertise to diplomatic missions across the continent. Regular reassessments would then allow Australia to determine where further defence personnel might be located.

In the report, I note that "military-to-military relations need better linking and development, which will require a change in the culture of engagement." This requires a commitment to regular officer exchanges.

ANNOUNCEMENTS

ASPI's [Women in Defence and Security Network official website](#) has launched. This website is your one-stop shop for all things WDSN-related. Featuring profiles of some amazing women working in the defence and security industry, reading suggestions, details of ASPI's broader work on women, peace and security, future events and more.

About 12 months ago, one of Australia's most enduring naval mysteries was solved when the wreck of HMAS AE1 was finally discovered. The Australian E Class Submarine Foundation (AESMF) has now been established to understand the environment in which AE1 is laying. It plans to do that with an instrumentation package which will cost around \$120,000. To help raise some of those funds, APT has donated a 13-day small ship expedition cruise to the AE1 site departing in October 2019. The cruise is valued at \$27,990 and a raffle has been established with only 1,000 tickets to be sold at \$50 each. To buy tickets, please visit the [SIA website](#).

"There are major opportunities for Australian defence industry to collaborate with German and European partners"

Canberra must also consider providing further rotating opportunities to “ensure the build-up of skills and understanding among European partners, as the officers’ acquired insights could be shared with other European countries.”

There are, of course, limits to deeper collaboration. Large-scale German–Australian military exercises are unlikely because of time and resource constraints. However, both sides should continue to increase their participation in regional exercises and periodic ship visits. This would allow Germany to advertise its defence industry capabilities throughout the region and participate in potential future freedom of navigation operations.

This may also facilitate greater contact between German and Australian defence industries, allowing for new global logistical chains and joint exploration of new export markets. As the EU’s Common Defence and Security Policy features initiatives open to non-EU members, there are major opportunities for Australian defence industry to collaborate with German and European partners.

Australian companies focussing on niche capabilities and contributing partial systems would be the best chance for German-Australian industry cooperation, with particular potential for Australia in space and UAVs.

In short, commitment to each other will be necessary to face the challenges of today and tomorrow. Both states have unique capabilities and knowledge of mutual benefit; relations ought to become closer in a changing world and a changing Europe.

Note: Jacqueline Westermann regularly comments on European and Russian security. In addition to her research for ASPI’s International Program, she has also been working with The German Marshall Fund of the US’ Warsaw office and the Moscow German Newspaper.

MOST READ ONLINE AT WWW.AUSTRALIANDEFENCE.COM.AU



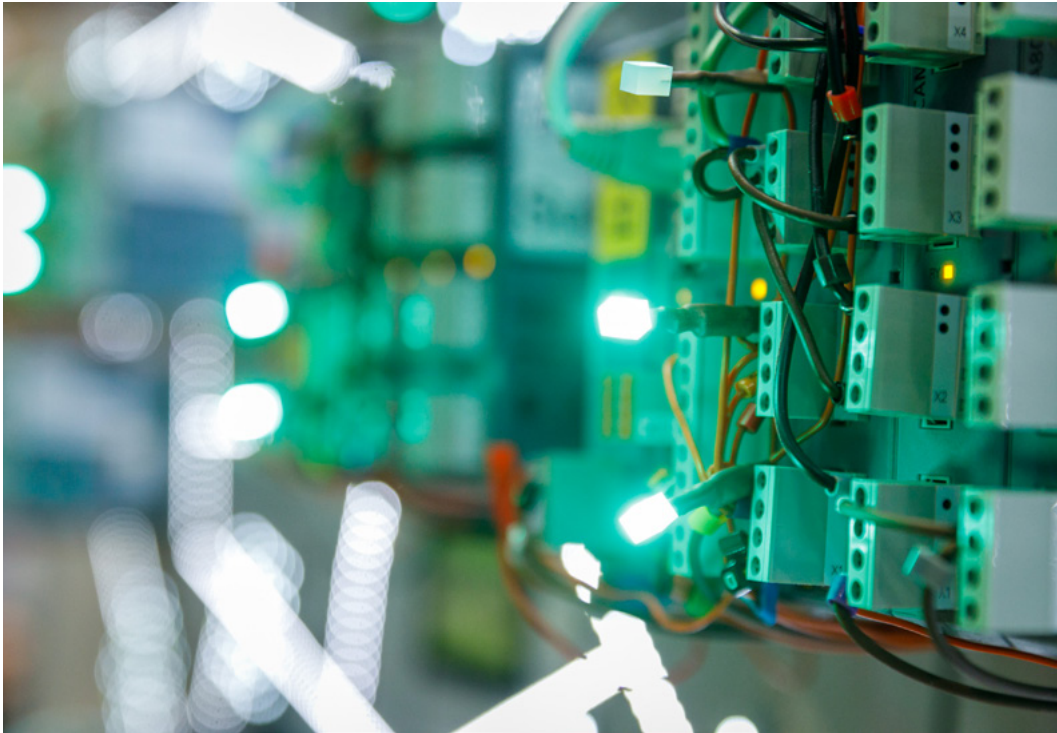
1. [Construction begins on first Arafura class OPV](#)
2. [Defence gifts old Rovers to Lebanon](#)
3. [British antenna systems for WA ground station](#)
4. [Geraldton work program to support US Navy comms](#)
5. [US moves forward with active protection systems](#)

Cyber research to trap thieves with AI

Fighting cyber-attacks using AI to create stronger ‘cyber traps’ is the focus of two ground-breaking Australian research projects run by the Cyber Security Cooperative Research Centre (Cyber Security CRC) and Australian cyber security firm Penten.

Advanced cyber traps are used to identify data breaches as they happen, allowing cyber defenders to move quickly to protect crucial information and systems.

“The average time taken to detect a data breach is more than 200 days,” Penten CEO Matthew Wilson, said.



Advanced cyber traps are used to identify data breaches as they happen.

ARNO MIKKOR

“The time taken to detect a data breach is more than 200 days”

“Using AI dramatically cuts this time and gives Australia’s cyber defenders the chance to identify and defend against the breach as it is taking place.

“AI is fast becoming one of the most effective tools to trick and trap cyber thieves on large networks.

“Penten was [recently awarded \\$2 million](#) by the Australian Army to create decoy radio emissions using AI to confuse adversaries on the battlefield.”

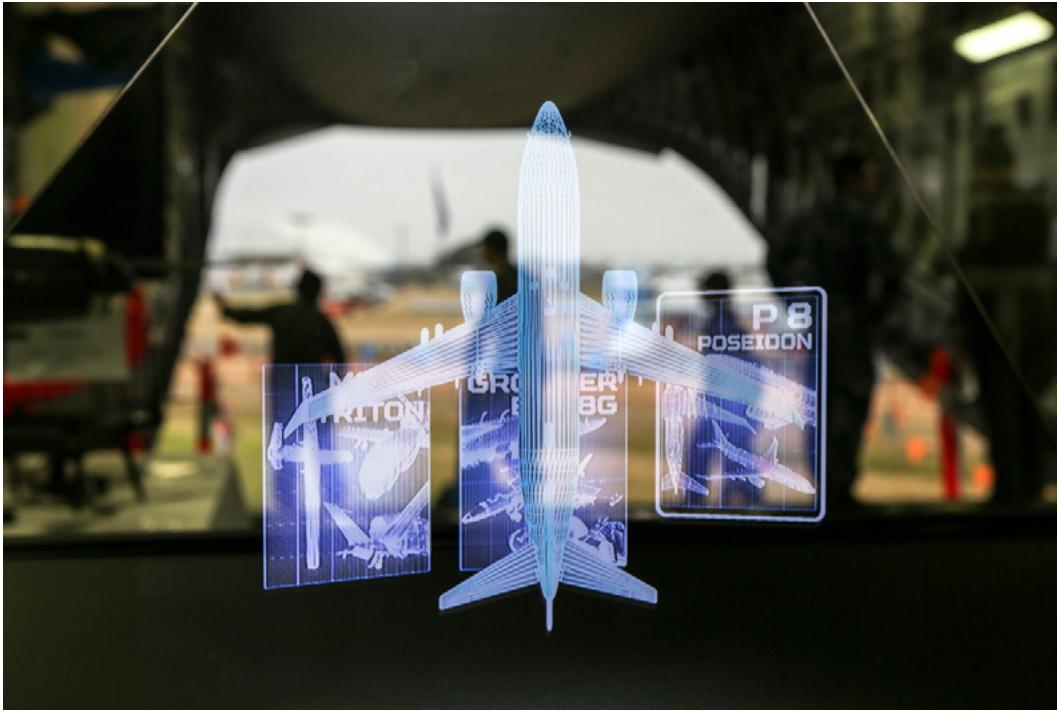
The projects secure the continued improvement of cyber traps to counter the emerging and improving techniques of adversaries and data thieves.

“The Cyber Security CRC is excited to be the catalyst bringing together two teams of Australia’s cyber security researchers and cyber innovators to work to create advanced, ground breaking cyber security technology,” CEO Cyber Security CRC, Rachael Falk, said.

Avalon innovation awards shortlist released

Twenty three SMEs, research institutions and individuals from six states and territories have made the short list for the \$60,000 Avalon 2019 Innovation Awards.

The entrants submitted innovations across a range of fields from aerial sensors to helicopter training, a system to monitor space assets, and a water-powered rocket school teaching aid.



The awards aim to highlight innovative technologies in the Australian aerospace and defence community.

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“The awards are not about innovation for its own sake, but about creating products and services that solve problems”

The awards will be presented in six categories as part of the Avalon Airshow.

The awards are open to Australian companies and the Australian subsidiaries of overseas parent companies. The innovation can be a new product or service to a new approach to business, with entries judged on originality and utility in aerospace, space and defence.

Past winners have included TAE Aerospace for its Fountx wearable engineering technology, BAE Systems for its EDMAP corrosion management system, and Thomas Global Systems for its ‘plug and play’ LCD replacement for legacy cathode ray tube aircraft instruments.

The Avalon Innovation Awards are part of a program also involving the Maritime, Land and Civil Security Industry Innovation Awards, presented biennially at the Pacific International Maritime Expo in Sydney, the CivSec Civil Security Congress and Exposition in Melbourne, and Land Forces.

The program has awarded \$305,000 in grants and awards since it began in 2013.

“The key criteria in the Avalon 2019 Innovation Awards is that the innovation must not only be ground breaking, but must also provide a tangible benefit in defence or industry,” Avalon 2019 CEO Ian Honnery said.

“The awards are not about innovation for its own sake, but about creating products and services that solve problems, create opportunities and make a difference in the real world.

“The fact that this year’s innovation awards attracted a record number of entrants is a tribute to the level of innovation and creativity in the Australian aerospace and defence community.”

Hunter partnership to grow local STEM skills

Lockheed Martin Australia has entered a strategic partnership with Regional Development Australia (RDA) Hunter to help meet the STEM skills shortage.

“Through greater awareness and positive engagement with industry technologies, more secondary school students will take-up STEM-related subjects”

The partnership – aimed at developing the skills needed to create and sustain advanced technologies for defence industry – was announced late last year in Williamstown, NSW.

The initiative will connect Lockheed Martin Australia with local secondary schools, as well as vocational training and tertiary institutions, to inspire and mentor STEM learning and shape curricula to meet the projected STEM skills required to operate, sustain and maintain 5th Generation defence capability, including the locally-based F-35s.

The investment comes in the form of two programs: a new STEMStart initiative to enhance the vocational pathway for technical training in cyber, ICT and programming; and curriculum development across relevant STEM-related University of Newcastle courses.

Speaking at the official opening of the Lockheed Martin Australia Technology Expo 2018, Lockheed Martin Australia Chief Executive, Vince Di Pietro AM, CSC, reiterated the company’s commitment



School students at the Lockheed Martin STEM Experience.

LOCKHEED MARTIN AUSTRALIA

to working with industry and education providers.

"As home to Australia's first squadron of [highly advanced F-35 fighters](#) and Australia's largest regional economy, we understand the importance of the Hunter to our wider economic and national security interests," Lockheed Martin Australia Chief Executive Vince Di Pietro said.

"It is Lockheed Martin Australia's firm belief that, through greater awareness and positive engagement with industry technologies, more secondary school students will take-up STEM-related subjects and go on to pursue industry-related career pathways."

RDA Hunter Chairman John Turner said he was very pleased to publicly recognise RDA Hunter's new partnership with Lockheed Martin Australia.

"Defence projects such as the F-35 deliver significant economic impact in the Hunter, bringing next-generation technology and related new, high-value, skilled jobs. RDA Hunter is delighted to collaborate with Lockheed Martin Australia to help STEM-skill students in preparation for these roles."

"We look forward to sharing our knowledge and expertise with LMA and connecting them with the region's wider defence industry, education and government to help build the workforce they need, while providing Hunter students with pathways to long-term career opportunities in the region."

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Forthcoming Events

ADM EVENTS

More detail on **ADM** Events can be found on our dedicated website: admevents.com.au

- [ADM Congress 2019](#) – 13 February 2019
- [ADM Space Summit](#) – 30 April 2019
- Women in Defence Awards - 11 July 2019
- [ADM STEM and Defence Summit](#) – August, 2019 (TBA)
- [ADM Defence Estate and Base Services Summit](#) – 12 September, 2019
- [ADM North Australian Defence Summit](#) – 23-24 October 2019

AIDN National Gala Dinner 2019

Date 13 February 2019

Location: National Gallery of Australia, Canberra

Website consec.eventsair.com/aidn-2019/dinner/site/register

The AIDN National Gala Dinner will be held at the stunning Gandel Hall, National Gallery of Australia on Wednesday 13 February 2019 commencing with pre dinner drinks and networking from 7.00pm. Guests will enjoy an evening of networking, socialising and fun which includes a VIP guest speaker, presentation of the AIDN National Young Achiever Award and Silent Auction with all proceeds donated to Legacy.

BMT's Introduction to Fleet Life Cycle Management (Canberra)

Date 18-22 February 2019

Location Canberra

Website <https://www.bmt.org/training/introduction-to-fleet-life-cycle-management-course/>
BMT's, five-day Introduction to Fleet Life Cycle Management course covers all aspects of naval life cycle management. The modules provide detailed insight into Asset Management and its applications to naval ships and support systems in Defence's maritime environment.

Avalon Airshow 2019

Date: 26 February – 3 March 2019

Location: Avalon Airport

Website: airshow.com.au/airshow2019

The Australian International Airshow and Aerospace & Defence Exposition is one of Asia-Pacific's most prestigious aviation and aerospace events and the most comprehensive aviation, aerospace and defence exposition in the southern hemisphere. Avalon hosts multiple concurrent conferences and expo streams, across the spectrum of Defence, Airlines, Business and General Aviation, Sport and Recreational Aviation, Airports, MRO, Space, Unmanned Systems, Air Safety and Ground Equipment.

Project Leaders as Humble Iconoclasts

Date 14 March 2019

Location Online, 13:30-14:30

Website <https://iccpm.com/events/>

[project-leaders-as-humble-iconoclasts-with-dr-kaye-remington/](https://iccpm.com/events/project-leaders-as-humble-iconoclasts-with-dr-kaye-remington/)

A 1-hour webinar hosted by Dr Kaye Remington, internationally renowned author, academic & complex project specialist. In preparation for her book *Leading Complex Projects*, Kaye and her research team interviewed over 100 successful senior project leaders. These highly successful project leaders consistently exhibited certain key characteristics and behaviours. In this webinar, Kaye discusses some of the outstanding characteristics that distinguished those leaders.

What Does a Project Manager of the Future Look Like?

Date 28 March 2019

Location EAST Hotel, Canberra

Website <https://iccpm.com/events-2/what-does-a-project-manager-of-the-future-look-like/>

The future success of an organisation relies on the ability to manage a diverse body of talent that can bring innovative ideas, perspectives and views to their work. The challenge and problems created by workplace diversity can be turned into a strategic organisational asset if an organisation is able to capitalise on this melting pot of diverse talents. Come and join our ICCPM hosted Breakfast Panel Discussion where our panellists will be sharing their experiences and perspectives from different industries and positions on managing and leveraging diverse talents.

Export Control Training Session

Date 03 April 2019

Location 60 Clarence St, Sydney

Web <https://www.stickytickets.com.au/81012>

Join us for a 1-day face-to-face training course to de-mystify the complex area of Export Control regulations. The course will address an overview of the ITAR, EAR, and DEC; how the ITAR and EAR apply to all areas of your business; advice on employing dual and third country nationals; licensing and permit requirements; and more.

BMT's Introduction to Fleet Life Cycle Management (Perth)

Date 01-05 May 2019

Location Perth

Website <https://www.bmt.org/training/introduction-to-fleet-life-cycle-management-course/>

BMT's, five-day Introduction to Fleet Life Cycle Management course covers all aspects of naval life cycle management. The modules provide detailed insight into Asset Management and its applications to naval ships and support systems in Defence's maritime environment.

IMDEX Asia 2019

Date 14-16 May

Location Changi Exhibition Centre, Singapore

Website imdexasia.com

Coming to its 12th edition, the biennial IMDEX Asia is Asia Pacific's premier international maritime defence show and a must-attend event in the global naval and maritime security calendar. With established conferences and real-time discussions on maritime security, IMDEX Asia draws a plethora of global leaders and distinguished guests.

AusCERT Conference 2019

Date 28-31 May 2019

Location Gold Coast

Website <https://conference.auscert.org.au>

The AusCERT Conference is the oldest information security conference in Australia. Each year, we attract in the vicinity of 700 participants and approximately 50 sponsors. This year's conference is focused on gaining as many tools for you and your team's toolbox as possible to ensure you are armed and ready for any battle you may face.

Paris Air Show

Date 17-23 June 2019

Location Le Bourget

Website siae.fr/en/

The 53rd Paris Air Show will once again bring together all the players in this global industry around the latest technological innovations. The first four days of the Show will be reserved for trade visitors, followed by three days open to the general public.

Pacific 2019

Date 8-10 October 2019

Location Sydney Convention Centre

Website pacific2019.com.au

As the only comprehensive international exhibition of its kind in the Indo-Asia-Pacific region, PACIFIC 2019 will again provide the essential showcase for commercial maritime and naval defence industries to promote their capabilities to decision-makers from around the world.

MilCIS 2019

Date 12-14 November 2019

Location Canberra Convention Centre

Website

In November each year, the Defence Chief Information Officer Group (CIOG) partners with the UNSW Canberra and the Institute of Electronic and Electrical Engineers (IEEE) to present MilCIS. The annual Military Communications and Information Systems (MilCIS) Conference welcomes military and government organisations, academia, and defence industries to contribute to the future direction of military communications and information systems.