



# DEFENCE WEEK

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## Abolish the DMO?

Tom Muir

**The Commission of Audit review into government programs and spending has recommended the reintegration of the DMO into the Department of Defence and significantly reducing its size.**

This was one of a number of recommendations for the Defence portfolio contained in the commission's report, which also included privatising shipbuilder **ASC** and **Defence Housing**, streamlining Defence senior leadership numbers and reducing Defence staffing size to 1998 levels. But the review was particularly scathing of the performance of the DMO, which is tasked with acquiring and sustaining weapons and equipment.

"In the commission's opinion the 2005 decision to create the DMO as a statutory independent organisation outside the Department of Defence, under a purchaser provider arrangement, has not worked. It has not been effective in enhancing accountability," the commission's report reads.

"The commission received a number of submissions that highlighted shortcomings of DMO and the Capability Development Group. These included: high turnover of military staff; project management and costing skills shortages; unnecessarily complex contracting arrangements; underestimation of initial project costs; a lack of independent scrutiny; inadequate identification of technical risks; and unreliable whole-of-life cost estimates."

"Ensuring all parts of the capability process reside within Defence



- including a much smaller DMO focussed predominantly on contract management rather than detailed project management - will allow for a more integrated view of the capability process, better defined accountabilities and better sharing of information. It will serve as a basis to address the shared problems faced by DMO and **Capability Development Group**.

"A more professional Capability Development Group could be achieved by ensuring it was headed by a senior policy officer experienced in independent analysis of contending military equipment and with staff recruited from a new professional capability development career stream."

The federal government will not be providing an immediate response but says it will do so with its first Budget to be released next week.- TM



## Aussie developed software sold to US SOCOM

**General Dynamics Advanced Information Systems has delivered nine of its next-generation TAC-MAAS processing, exploitation and dissemination (PED) systems to the US Special Operations Command (SOCOM).**

TAC-MAAS is the US version of the D-VEX Full Motion Video Exploitation System developed in Australia by General Dynamics

Mediaware and marketed in North America by GD-AIS.

These **commercial off-the-shelf (COTS)** tactical systems process full motion video (FMV) from most **intelligence, surveillance and reconnaissance (ISR) platforms**, and will enhance SOCOM's ability to capture, analyse and search mission-critical FMV to derive real-time actionable intelligence and improve situational awareness.

"With its suite of essential tools for video enhancement, event-tagging and geospatial search, TAC-MAAS meets the unique mission requirements of the US Special Operations Command," **Mike Manzo**, director of Geospatial Solutions at General Dynamics Advanced Information Systems said.

"TAC-MAAS' intuitive interface can also be mastered with minimal training and operational support helping to ensure there is little to no downtime when integrating this solution into existing workflows and **CONOPS**."

Designed for in-theatre operations where ease-of-use and low system overhead are vital, TAC-MAAS can be installed, configured and maintained by operators in the field on ruggedized laptops. Capable of robustly handling the capture, cataloguing and sharing of FMV streams in extremely demanding environments, TAC-MAAS also allows operators to mark up and disseminate derived images and video clips.





## ADF's nod to offensive cyber warfare

Tom Muir

In this country's somewhat belated approach to cyber warfare – it was mentioned for the first time in the 2009 Defence White Paper – the casual observer could be forgiven for thinking

**that most effort appears to be focussed on the defensive aspects rather than on its employment for offensive operations.**

Now **Philip Dorling** (Fairfax) reports that the release of the Australian Defence Force's newly revised "Information Activities" doctrine, approved by Defence chief General **David Hurley** last November, reveals that the ADF will engage in offensive "information operations" in future military conflicts.

Declassified in response to a Fairfax Media freedom-of-information request, the new doctrine provides "authoritative" guidance for planning Defence Force operations aimed at "undermining the adversary's ability to develop, disseminate and execute sound decisions".

Offensive measures to be employed by the ADF against adversaries include "computer network operations" - otherwise known as cyber warfare - which are defined to include attacks on and exploitation of information and data networks.

The ADF's information operations doctrine emphasises the importance of degrading an enemy's information systems as well as engaging in psychological warfare and deception. Significantly the doctrine also refers to "special technical operations" that use "highly compartmented and closely protected" capabilities that are "particularly useful" for offensive information operations. "Some information-related capabilities are quite technical in nature and may require long lead times to be able to support the operation," the document says - *TM/Philip Dorling*

### REGISTER NOW!

#### ADM Cyber Security Summit 19-20 June 2014 | Canberra

This year's speaker faculty will feature presentations from renowned experts from government, industry institutions/agencies, academia and leading vendors. Some of the key topics to be addressed include:

- Cyber warfare
- Mitigating and preventing cyber offensives
- Protecting critical cyber infrastructure
- Intelligence and surveillance
- Cyber terrorism
- International Policy



## Tactical EW trainer sought

Defence plans to release an RFP for an enhanced simulation system to support individual training and qualification of all rank levels in the Tactical Electronic Warfare (TACEW) category and the continuation training and preparedness assessment of shipboard EW teams.

Effective replication of the future **EW equipment** and working environment is required to support basic through to advanced tactical EW training. The TACEW Simulator will be based at HMAS Watson and HMAS Stirling.

The proposed TACEW is a software-based, desktop environment which represents modern EW technologies and which is able to be upgraded to reflect changes in the fleet over the life of the TACEW. It provides a simulation of all of the EW subsystems, equipment and configuration, typical of that found across the fleet in modern **Major Fleet Units (MFU)** to enable consolidation of theory and support for EW training.

A video based monitoring/recording system is proposed to allow the instructor to monitor, debrief and assess the trainees.



## Land Forces 2014 to embrace SMEs

Nigel Pittaway

Land Defence Australia, organisers of the Land Forces 2014 exposition to be held in Brisbane in September,

has announced a range of initiatives designed to assist Australian Small and Medium Enterprises (SMEs).

In addition, it will create dedicated Australian SME and 'Made in Australia' precincts within the Brisbane Convention and Exhibition Centre and has recently appointed **Terry Whelan** as an SME Advocate, responsible for co-ordinating the innovations.

Retiring from the Army as a LTCOL after 21 Years of service in 1990, Whelan has been involved in defence industry with emphasis on International Business, including Tenix's US operations, Compucat in Australia and was appointed head of Export and Industry programs before retiring in 2011. In his latest role he will also oversee SME initiatives at Land Forces' associated events, the Australian International Airshow and Aerospace & Defence Exposition at **Avalon** next February and the **2016 Pacific International Maritime Exposition** in Sydney.

"Events such as Land Forces enable us to provide targeted, concentrated support for Australian SMEs and we need to exploit these opportunities," he said. "We believe it is imperative that all bodies work closely together in order to ensure that our SMEs garner the best support available and that the return on their investment in participating in these events is realised."

According to **Gregor Ferguson**, executive manager Industry Development for Land Defence Australia, the package of initiatives on offer will include:

- A Business Centre for the exclusive use of Australian SMEs
- A dedicated SME Hub incorporating meeting rooms for introductions of SME to senior defence and industry staff and SME use for meetings

- Exclusive WiFi hotspot for Australian SME use
- Targeted introductions to relevant Defence and Industry officials
- Global Supply Chain (GSC) Hub – two half-day workshops organised for SMEs
- SME-only Breakfast, by invitation, with Keynote speakers
- Pre-event training course on how to get best from conferences and exhibitions
- Co-operation with State government Departments of Industry and Industry Associations to give the broadest support available.
- Free entry to the Land Forces 2014 trade exhibition

Ferguson said the 'Made in Australia' precinct will be located within the Small Business Zone in the exhibition hall and stand space will be offered at 'globally competitive prices'.

He also said that the initiative had been discussed with State government bodies and industry organisations such as the **Australian Industry Group**, **Australian Industry & Defence Network (AIDN)** and the **Defence Teaming Centre** and had been widely welcomed.

Ferguson said that his organisation will conduct a detailed survey of attending SMEs as soon as possible after the event to gauge feedback and help identify any further improvements to the initiative for future exhibitions.



## Mobilising airlift - RAAF renames major force element group

Nigel Pittaway

**The RAAF's Air Lift Group was renamed Air Mobility Group on April 1, according to the May 8 issue of *Air Force News*.**

The name change reflects the expanded role of the organisation with the introduction

of the **Airbus KC-30A Multi-Role Tanker Transport (MRTT)**.

"The function of air-to-air refuelling is to extend range, payload and endurance and is not adequately described by the term 'Air Lift'," Commander Air Mobility Group, Air Commodore **Warren McDonald** told the Air Force In-house newspaper. "Air mobility more closely describes our expanded scope of operations and is consistent with the current air power doctrine."

The organisation will continue to be headquartered at RAAF Base Richmond and AIRCDRE McDonald said its core mission would remain focussed on the movement of materiel and personnel to support ADF operations globally.

"This name change, while symbolic, comes at a perfect time to reinforce the fundamental capability transition Air Force has experienced with the introduction of the **C-17A** and ongoing support provided by the **C-130J**, Special Purpose aircraft and **King Airlift**," he said.

"This transition will continue as we fully realise the potential of these platforms along with the **KC-30A** and **C-27J Spartan**."



## ADF's multi-national ABCA exercise

The Australian Defence Force is undertaking a simulation-based, multi-layered Command Post Exercise at Gallipoli Barracks in Brisbane and Headquarters Joint Operations Command in Bungendore, NSW.

Exercise VITAL PROSPECT will see some 1200 ADF personnel practice operational command and control of a coalition force incorporating approximately 200 personnel from the American, British, Canadian and New Zealand defence forces in a high-end, mid-intensity conflict scenario, against a highly capable fictitious enemy.

During the exercise the Brisbane-based **Deployable Joint Force Headquarters (DJFHQ)** and the ADF's **Theatre Air Control Centre (TACS)** will be put to the test running the conflict at an operational level, across the expanses of northern Australia and its approaches. **Exercise BLUE DIAMOND**, within VITAL PROSPECT, will focus on assessing the Australian Army's 7th Brigade Headquarters in its role within the land phase of the conflict scenario.

An American, British, Canadian, Australian and New Zealand Armies Program (ABCA) Command Post Exercise, **Exercise AQUA TERRA**, will be integrated within VITAL PROSPECT to maximise interoperability within a coalition environment.

The Chief of Joint Operations Command, Lieutenant General **Ash Power**, will oversee the exercises and said they provide an opportunity to confirm the ADF's deployable command and control capabilities within a complex and demanding scenario.

"Operations don't just happen—each requires intricate planning. These exercises provide both the ADF and our coalition partners with the opportunity to plan and to practise Joint Task Force Headquarters processes, using the power of simulation," Lieutenant General Power said. "We are rehearsing some very complex processes during these exercises.

"This enables us to put into practice the lessons we and our coalition partners have learned on recent operations, against a tough adversary, to ensure we continue to maintain and improve our capabilities. The power of modern simulation systems allows us to practice far more realistically and cost effectively than has been possible in the past.

"This year, the integration of the ABCA Exercise AQUA TERRA will give the ADF the opportunity to work closely with our coalition partners, improve interoperability, and exploit information to support the ongoing transformation and modernisation of ABCA armies."

### OUT NOW! ADM May 2014

- Armed UAV for the ADF?
- DSTO MAV research takes flight
- Offensive cyber warfare
- ACSC to become one stop shop
- The emergence of 'cyber labs'
- Raydon Gates chief executive of Lockheed Martin Australia and New Zealand speaks to ADM
- and much more!



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# Cyber maturity in the Asia-Pacific Region 2014

Tobias Feakin, Jess Woodall and Klee Aitken

**To make considered, evidence-based cyber policy judgements in the Asia-Pacific there's a need for better tools to assess the existing 'cyber maturity' of nations in the region.**

Over the past twelve months the **Australian Strategic Policy Institute's International Cyber Policy Centre** has developed a maturity metric which provides an assessment of the regional cyber landscape. This measurement encompasses an evaluation of whole-of-government policy and legislative structures, military organisation, business and digital economic strength and levels of cyber social awareness. This information is distilled into an accessible format, using metrics to provide a snapshot by which government, business, and the public alike can garner an understanding of the cyber profile of regional actors.

A PDF of this report can be downloaded from [www.aspi.org.au](http://www.aspi.org.au)



## A versatile force: The future of Australia's special operations capability

By Andrew Davies, Peter Jennings and Benjamin Schreer

**Over the past decade, the demands of the ADF's global and regional operations have seen an unprecedented growth in Australia's special operations capability. Indeed, Special Operations Forces became the 'capability of choice' for the Australian Government.**

However, as the ADF enters a period of transition from almost constant high-tempo operations to what might be a 'soft power decade', there's a need to consider the

future of the capability.

Against this background, this study aims to inform policy decisions by providing an understanding of the special operations capability and what it offers to government in both peace and wartime. It argues against possible temptations to cut the capability. In a changing strategic environment, Special Operations Forces will continue to be an important instrument of Australian defence policy. The study entails a number of concrete policy recommendations to strengthen and readjust the special operations capability for a new era.

A PDF of this report can be downloaded from [www.aspi.org.au](http://www.aspi.org.au)





## ADM Online: Weekly Summary

A summary of the latest news and views in the defence industry, locally and overseas. Check out our webpage for daily news updates on the ADM home page and make sure you bookmark/RSS this for a regular visit.

This week, Lockheed Martin Australia was selected as the preferred tenderer

for the provision of **Centralised Processing services** to Defence.

Lockheed Martin Canada signed a contract with New Zealand for the upgrade of the Royal New Zealand Navy's two **ANZAC Class frigates**.

And, the Turkish undersecretary for defense announced the country's intention to order two **F-35 fighter jets** as part of a delayed order expected to be consummated in 2016.

## International



## Boeing delivers 100th EA-18G Growler to US Navy

**Boeing delivered the 100th EA-18G Growler to the US Navy, marking a major milestone in the program that has transformed airborne electronic warfare capability for the US and its allies.**

A derivative of the F/A-18F Super Hornet, the Growler is the only aircraft in production that provides tactical jamming and electronic protection for US and allied forces.

The US Navy has 22 Growlers on its unfunded priorities list for the 2015 fiscal year budget. Current orders take Growler and Super Hornet production through the end of 2016.

### REGISTER NOW!

### ADM Northern Australia Defence Summit

15-16 October 2014 | Darwin

Bringing together key figures from the NT Government, senior military figures, and senior industry representatives, this conference is all about the continuing development and support of Defence in the Top End.



## Brits seek new military vehicles

The UK Defence Equipment and Support (DE&S) organisation has recently briefed industry on its requirements for three new vehicles with an enhanced level of protection to replace legacy vehicles currently deployed. These three new vehicles are the Multi Role Vehicle - Protected (MRV-P), the Future Protected Battlefield Ambulance (FPBA), and the Non-Articulated Vehicle Protected (NAVP).

The MRV-P is a potential follow-on to the future Operational Utility Vehicle System (OUVS) program, which was eventually cancelled.

The OUVS program was in two parts: OUVS (Small) and OUVS (Large). As originally conceived, the program was to have replaced all current in-service light vehicles including the **Land Rover Truck Utility Light (4x4)**, **Land Rover Truck Utility Medium (4x4)**, **Pinzgauer Truck Utility Heavy Duty (4x4 and 6x6)**, and the **Reynolds Boughton Truck Utility Heavy (4x4)**. - *IHS Janes*



## Improved ammunition for M777 howitzer

In Afghanistan, the BAE Systems' M777 lightweight towed howitzer has been used very effectively for both point and area defence by US and Canadian forces. In the former role it was used to fire the Excalibur round, co-developed by

**BAE Systems, with ranges of up to 40km with extreme precision, reducing the chance of innocent casualties and allowing supporting fire to be brought down much closer to friendly troops.**

A new generation of longer range smart ammunition promises to make the **M777** even more effective. The **Multi-Service Standard Guided Projectile (MS-SGP)** is designed to enable the M777 to achieve ranges approaching 100km, with greater accuracy and lower cost than existing smart munitions.

MS-SGP uses tested component designs derived from the highly successful 155mm **Long Range Land Attack Projectile (LRLAP)** being co-developed by BAE Systems for the Advanced Gun System to be fitted to the US Navy's DDG1000 ships.

The MS-SGP employs a sub-calibre 127mm rocket-assisted projectile fitted with sabots to enable it to be fired from the M777. Firing trials last year at the White Sands range in New Mexico demonstrated the accuracy of the projectile to a medium flight range of 50km and confirmed the system's operational capability and readiness.

The M777 weighs just 4,200kg – less than half the weight of conventional 155mm artillery – with most of the weight reduction being achieved through the use of titanium. This provides exceptional mobility by medium lift helicopter, transport aircraft, on marine landing craft and over land. When deployed by air, the M777 can be brought to



the theatre quickly over otherwise inaccessible terrain and above the reach of roadside bombs.

In 2008, the Australian Defence Force made a US Foreign Military Sales request for 57 M777A2s worth an estimated US\$248m. Subsequently, 35 guns were purchased for the Australian Army to re-equip the 1st Regiment, Royal Australian Artillery and the 4th Regiment, Royal Australian Artillery; replacing 155mm M198s and 105mm L119 Hamels. The first deliveries of M777A2 began in late-2010. An additional 19 guns will be bought directly from American production lines to enable a total of six batteries.

Concurrently, the Australian Army has acquired guided 155mm munitions in the form of the M982 Excalibur and XM1156 Precision Guidance Kit. - *TMI/HS Janes*



## EW pod for Fire Scout's big brother (MQ-8C)

The US Navy (USN) plans to equip the Northrop Grumman MQ-8C Fire Scout rotary-winged unmanned aerial vehicle (UAV) with an electronic warfare (EW) capability through the development of a new external pod, the Department of Defense (DoD) disclosed on 1 May.

Under a contract listing, Northrop Grumman is being given USD10.8

million to develop and integrate the new Multi Capability Pod (MCAP) onto the **MQ-8C**. The MCAP will provide the UAV with "multiple electronic warfare sensors for employment in the littorals", the DOD listing said. Work is scheduled to be completed in June 2015.

Developed from the **Bell 407 manned helicopter**, the MQ-8C Fire Scout will provide an enhanced capability over its smaller MQ-8B namesake, which is modelled on the smaller **Schweizer Aircraft model 330 helicopter**. The MQ-8C has a range of about 150 nautical miles and a payload capacity over 317 kg.

The USN is scheduled to receive 28 MQ-8Cs to augment the 168 MQ-8Bs it plans to operate in both the intelligence, surveillance, and reconnaissance, and unmanned strike roles. Sea-trials of the MQ-8C aboard the US Navy's Littoral Combat Ship are set to run through to early 2015, with the first deployment scheduled for 2016.

## FORTHCOMING EVENTS.....page 11

# FORTHCOMING EVENTS

For a full list of defence and industry events, head to **ADM's online events page at [www.australiandefence.com.au](http://www.australiandefence.com.au)**

## ADM Cyber Security Summit

**DATE:** 19 - 20 June, 2014, Canberra

**ENQUIRIES:** ADM Events - Adam Wiltshire, Ph: 02 9080 4342;

Email: [adam.wiltshire@informa.com.au](mailto:adam.wiltshire@informa.com.au)

Web: [www.admevents.com.au](http://www.admevents.com.au)

Over the last 2 years, the summit has gathered 150+ senior Defence, National Security and Industry executives to address current and emerging cyber threats to Australia's security.



## Defence and Industry (D+I) conference 2014

**DATE:** 29 - 30 July, 2014, Adelaide

**ENQUIRIES:** Defence Materiel Organisation

Email: [DMO.Communication@defence.gov.au](mailto:DMO.Communication@defence.gov.au)

The Conference is an opportunity for Industry to discuss with Defence officials acquisition and sustainment investment opportunities.



## SimTect 2014

**DATE:** 25 August, 2014, Adelaide

**ENQUIRIES:** Web: <http://www.simtect.com.au/>

SimTect is the annual Simulation Technology and Training Conference held by Simulation Australia. Since its inception in 1996, SimTect has grown to become Australasia's premier simulation conference for industry, government and academia.



## Northern Australia Defence Summit

**DATE:** 15-16 October 2014, Darwin Convention Centre

**ENQUIRIES:** ADM Events - Adam Wiltshire, Ph: 02 9080 4342;

Email: [adam.wiltshire@informa.com.au](mailto:adam.wiltshire@informa.com.au)

Web: [www.admevents.com.au](http://www.admevents.com.au)

Bringing together key figures from the NT Government, senior military figures, and senior industry representatives, this conference is all about the continuing development and support of Defence in the Top End. Hear about the current and new initiatives offered by Government and what industry can bring to support Defence's strategic objectives



## New Zealand Defence Industry Association Forum (NZDIA Forum)

**DATE:** 21-22 October 2014, New Zealand

In association with New Zealand Industry, Ministry of Defence and NZ Defence Forces. More details to come.

## Land Forces 2014

**DATE:** 22 - 25 September, 2014, Brisbane

The Land Forces 2014 conference is a major event for users, providers, academics, designers and manufacturers to meet, present, share and exchange new and visionary ideas on Land Systems. More details to come.

ADM will  
be in  
attendance

