



# DEFENCE WEEK

SUBSCRIBER EDITION NEWS | INTELLIGENCE | BUSINESS OPPORTUNITIES | EVENTS

## IN THIS ISSUE

### NATIONAL NEWS

- Hawk as LIFT for Joint Strike Fighter? . 1
- Talisman Sabre 2013 kicks off . . . . . 3
- RAN leads with Taipan MRH90 in RAN service . . . . . 4
- NBC supplies decontamination shelters to the ADF . . . . . 5
- EADS CEO awarded prestigious French award . . . . . 6
- Snap-on Tools in search for Australia and NZ's best apprentice . . . . . 6

### INTERNATIONAL NEWS

- FLIR Systems chosen in support of international counter-terrorism . . . . . 8
- Airbus Military welcomes Cameroon as new operator . . . . . 8
- Jacobs awarded contract to support Marine Corps Logistics Command . . . . . 9
- Termination contingency plans for program managers . . . . . 9
- UK links with defence companies to tackle cyberattacks . . . . . 10
- McAfee uncovers evidence of military espionage campaign against South Korea . . . . . 10
- Eurocopter develops quieter helicopter landing procedures . . . . . 11

### FORTHCOMING EVENTS . . . . . 12

**DEFENCE BUSINESS OPPORTUNITIES. . . See separate PDF**

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## Hawk as LIFT for Joint Strike Fighter?

Tom Muir

About a year ago the Government announced a \$25 million contract had been signed with BAE Systems UK to commence upgrade activities on the RAAF's Hawk lead in fighter trainer aircraft. BAE Systems UK was the manufacturer of the original Hawk aircraft and developed a later version of the aircraft for the UK Ministry of Defence, on which the upgrade is to be based.

Both BAE Systems UK and Australia had worked closely with the ADF to define the scope of the upgrade, leveraging off previous Hawk development programs and it was announced that Australian industry would play a facilitation role in the early stages of the upgrade, ensuring compatibility with the current Lead-In Fighter training capability and responsibility for construction of simulator facilities, modification of the Hawk fleet, and in-service support of equipment.

When Defence Materiel Minister **Mike Kelly** announced last week that BAE Systems UK had been awarded a contract to upgrade the RAAF's Hawk fast jet trainer he said upgrading the fast jet training system would ensure its effectiveness into the next decade, providing for the progression of aircrew onto the **F/A-18 Classic and Super Hornets** and the **Joint Strike Fighter (JSF)** when it





is introduced into service. It was then announced that **BAE Systems Australia** had been awarded a \$435 million contract for in-service support services for the Hawk 127 fleet.

While the Hawk has been designed with through-life support programs to allow for system upgrades to reflect evolving training requirements, is it really up to providing lead in fighter training for the 5th gen fighter?

Howard Wheeldon, Senior Strategist at brokers, **BGC Partners**, certainly thinks so. In a paper on the **UK's Military Flying Training System** he says that designing training capability for next generation aircraft and the pilots that will fly them requires considerable effort.

While fourth and fifth generation combat aircraft are complex systems requiring precision operation, they are easier to fly than third generation jets, whose physiological workload took pilots to their absolute personal limits. Current

in-service fourth and fifth generation combat jets are reliant on large scale systems management that require intellectually focussed pilot skills with their own training needs.

He sees that positioning the MFTS around the Hawk 128 advanced jet trainer (along with the entire fast jet flying training system provided under the **Lockheed Martin/Babcock 'Ascent' MFTS contract**) opens the door for the training of international combat jet pilots in both current and next generation fighter aircraft such as **Typhoon** and the F-35 Joint Strike Fighter, with the Hawk AJT as lead in trainer aircraft of choice.

With digital glass cockpit layout featuring twin multifunction displays, two mission computers, Inertial Navigation/Global Positioning Systems (IN/GPS) with digital moving map for both navigation and weapon aiming accuracy, plus the brilliant **Rolls-Royce/Turbomeca Adour Mk 951** engine under the bonnet, it appears that the RAAF can look forward to receiving a formidable fast jet training aircraft including for F-35 lead in training, following the planned upgrade of their LIFT fleet to Hawk 128 AJT capability.





## Talisman Sabre 2013 kicks off

Julian Kerr

**Exercise Talisman Sabre 2013 got under way on 15 July off the central Queensland coast with a powerful US contingent reflecting Washington's focus on the Asia-Pacific region.**

The biennial Australia-US exercise will run until 6 August, with about 21,000 US and 7,000 ADF personnel operating in military training areas in central and southeast Queensland, the Northern Territory and the Coral, Timor and Arafura seas. The final week of the exercise is taken up with live firing.

The US contribution is led by the Nimitz-class aircraft carrier *George Washington*, accompanied by the Ticonderoga class cruiser *Antietam*, and four Arleigh Burke class guided missile destroyers. Other components include the guided missile and special warfare submarine *Ohio* and eight other amphibious assault and support ships, including the Japan-based 7th Fleet's command and control ship *Blue Ridge*.

RAN assets involved in the exercise include the **Anzac class frigates** *Perth* and *Warramunga*, the **Collins class submarine** *Waller*, the **Landing Ship Dock** *Choules*, tanker *Sirius*, and the



Spanish combat replenishment ship *Cantabria*, which is on a year's deployment with the RAN.

Also participating is the Hobart class guided missile frigate *HMAS Sydney*, which has been embedded with the *George Washington* carrier strike group for the past two months undergoing Aegis combat system training as part of preparations for the entry to service of the RAN's three air warfare destroyers. The Armidale class patrol boats *Bathurst* and *Wollongong* are acting as opposing forces.

ADF exercise spokesman **Brigadier Bob Brown** told *ADM* the fictional exercise scenario involves a peace enforcement mission in an offshore country that develops into hostilities.

“We try as realistically as possible to go through decision making at the strategic level – we’ve actually got a couple of Australian ambassadors and US State Department representatives taking part in the exercise who are consulted in role play,” Brig. Brown noted.

“We work our way down to the decision to undertake hostilities and then the various scenarios from high-end warfighting on eventually to peace enforcement and handing over to a UN operation, with a whole series of follow-on problems including refugees. There’s a big emphasis on the involvement of a range of government agencies.”

As part of the exercise, a 400-strong US Army airborne battalion group will fly non-stop from Alaska to Queensland (about 13,000 km), kit up, then parachute into the Shoalwater Bay Exercise Area and link up with Australian and US Marine Corps forces.

A major Australian objective is the certification of an **Amphibious Ready Element (ARE)** for amphibious warfare of an initial combat team of two companies and supporting elements from 2 RAR, the unit designated to develop this capability prior to the delivery of the RAN’s two Canberra-class 27,000-tonne Landing Helicopter Docks in 2014 and 2015 respectively.

Overall command of Talisman Sabre is being exercised by US Pacific Command headquarters in Hawaii, with tactical control the responsibility of **7th Fleet commander Vice Admiral Scott Swift**.

In an unusual tribute to the host country, a ceremony in Cairns at the conclusion of Talisman Sabre will see Vice Admiral Swift relinquish command of the 7th Fleet to his successor, **Vice Admiral Robert Thomas**, a submariner who is currently serving as chief of staff for strategic plans and policy in the Joint Staff office in the Pentagon.



## RAN leads with Taipan MRH90 in RAN service

The Royal Australian Navy is leading the world in bringing the new MRH90 ‘Taipan’ Multi-Role Helicopter into service at sea. The Navy’s soon-to-be-commissioned 808 Squadron has been conducting trials, testing, evaluation and training on the MRH90 Taipan helicopter since 2010.

When 808 Squadron’s commanding officer, **Commander Charlie Stephenson**, travelled to the Netherlands recently to present to 12 other nations currently introducing this variant of the MRH90 - known internationally as the **NH90 Troop Transport**



**Helicopter** - he left them a little surprised and very impressed by the RAN's progress to date.

The international forum known as the **NH90 User Group** provides the opportunity for armed services operating variants of the NH90 to share knowledge, experiences and gain valuable lessons learnt to benefit all members.

"I was invited to present on how the RAN is operating the MRH90 at sea because the RAN is the only service worldwide to be operating the troop transport variant of this aircraft at sea. Australia has flown the second highest number of hours worldwide, with the Italians being just ahead of the ADF, although they have been operating the aircraft for a longer time," he said.

In a ceremony last week 808 Squadron was commissioned into the RAN at the Naval Air Station, HMAS Albatross near Nowra, NSW and marked the formal induction of 808 Squadron to operate the Taipan. This commissioning ceremony was the culmination of three years of training, testing, development and trials to bring this new generation, high-tech aircraft into service. Further trials will be conducted with the aircraft after commissioning.

Australia ordered 12 aircraft to replace their aging fleet of **Army UH-1 Iroquois** helicopters in 2005 but the number was revised in June 2006 when the ADF announced plans to replace its **UH-60 Black Hawk** and **Westland Sea King helicopters**. Australia ordered 34 additional NH90s, taking their total order to 46; four to be manufactured in Europe, and 42 to be manufactured locally at **Australian Aerospace** in Brisbane.

The six helicopters at 808 Squadron will operate from the Navy's amphibious and afloat support ships such as *HMA Ships Success, Tobruk* and *Choules*. In future these aircraft will also operate from the Navy's new **LHD** amphibious ships *Canberra* and *Adelaide*. The other 40 MRHJ-90s are operated by the Australian Army.



## NBC supplies decontamination shelters to the ADF

**NBC Group UK has been contracted to deliver the Australian Defence Force (ADF) rapidly deployable field decontamination shelters.**

Under a recently awarded contract, NBC has supplied the ADF with their

COTS/MOTS SafeFrame series of lightweight field decontamination shelter system to upgrade existing equipment.

The SafeFrame Decontamination System is a rapidly deployable, fast-strike solution for larger scale decontamination which is scalable from a single shelter up to multiple linked shelters that create a modular village. The decontamination system is designed to be utilised when response units are deployed in Australia or overseas, for short or longer-term use.

NBC Group's patented SafeFrame range of shelters can be erected in a matter of minutes, with the decontamination system already integrated within. The larger of the series can be erected by a team of 2 in less than 8 minutes, a marked improvement on



shelter systems designed for long-term fielding which use can take hours to deploy.

The ability for the SafeFrame system to be erected in high wind conditions and deployed for long periods in adverse conditions, without compromising functionality being a key advantage of the system.

The systems currently in service are supported by NBC Group's Australian representative, **Owen International** who will provide training and spares through their Sydney based facility.



## EADS CEO awarded prestigious French award

France's highly coveted "Ordre National du Merite" for distinguished civil and military service has been awarded to one of the most well-known and highly-respected operatives in the Australian defence and aerospace industry.

The award was presented to **Fabrice Rochereau**, CEO of **EADS Australia**, by

the Ambassador of France, His Excellency, **Stephen Romatet**.

Presenting the award, Ambassador Romatet said Rochereau, who had taken up his position in 2007, had cultivated an environment of mutual trust, friendship and cooperation with the Australian Defence Force, defence/aerospace industry and Australian society in general.



## Snap-on Tools in search for Australia and NZ's best apprentice

The search for Australia and NZ's top apprentices is set to begin with entries for the annual prestigious Snap-on Tools Apprentice of the Year opening in August.

In its fifth year, the competition will be independently run this year and has been expanded to include apprentices across heavy vehicle, marine, aviation and automotive



trades.

Entries will be assessed by an all-star judging panel including V8 Supercar Legend Todd Kelly alongside other industry experts. Judges will be on the lookout for apprentices who have superior technical ability but have also given back to their communities and respective industries.

Snap-on Tools Apprentice of the Year also features the following award categories:

- Apprentice of the Year Rising Star: for a new apprentice showing talent and promise.
- Community Contribution: for an apprentice who also plays a role in their local community.
- Contribution to Armed Forces: for an apprentice who goes above and beyond to service our **armed forces**.

“Over the past four years we’ve seen some incredible talent and passion across the automotive industry,” Snap-on Tools Australia national sales manager, **Steve Jones** said.

“By expanding the competition to cover more industries like aviation, motorbikes and the defence force, we hope to provide recognition to and reward apprentices who go above and beyond in a wider range of fields.”

The competition opens on Thursday 1 August 2013 and closes Sunday 29 September 2013. Entries and nominations are open at [www.snapontools.com.au](http://www.snapontools.com.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, Minister for Defence Materiel Dr Mike Kelly addressed representatives of Australian companies at a **Joint Strike Fighter** industry day outlining the benefits and opportunities associated with the multi-billion dollar program.

It was announced that **Baulderstone** will be appointed to manage the construction of new and refurbished sustainment facilities in Sydney for the RAN’s new AWDs and LHD ships.

**Cubic Defense Systems** received several contracts totalling more than \$125 million for combat training support requirements in the Asia Pacific region.

And, Raytheon and Chemring have been finalising plans to conduct a live missile firing of the multirole **Centurion** launcher at the Defence Training Estate on Salisbury Plain during the fourth quarter of 2013.

### 2nd annual ADM Defence Support Services Summit

**Date:** 19 September 2013, Hyatt Hotel, Canberra

**Enquiries:** Jamie Burrage, Tel: +61(2) 9080 4321;  
Email: [Jamie.burrage@informa.com.au](mailto:Jamie.burrage@informa.com.au)



## International



### FLIR Systems chosen in support of international counter-terrorism

FLIR Systems has received a US\$16 million order for its Recon B2-FO integrated dual-channel thermal binoculars from an Asian government customer strategically allied with the US.

This longstanding FLIR customer is one of the largest users of the company's successful Recon product line.

Work under this order will be performed out of FLIR's facility in Billerica, MA, with shipments expected to be completed in the next 12 months.

### Airbus Military welcomes Cameroon as new operator



**Airbus Military has welcomed the Cameroon Air Force as a new operator of its aircraft with the delivery of a CN235 medium transport.**

The handover makes Cameroon the sixteenth sub-Saharan nation to operate Airbus Military's family of light and medium aircraft, underlining the range's suitability for the challenging operating conditions found in the region.

Altogether 61 countries now operate the Airbus Military light and medium family of airlifters and surveillance aircraft – the **C212**, **CN235** and **C295**.



## Jacobs awarded contract to support Marine Corps Logistics Command

**Jacobs Engineering has been awarded a contract to support worldwide, integrated logistics operations for Marine Corps Logistics Command (MCLC) and the Marine Corps operating forces.**

This multiple award, indefinite delivery/indefinite quantity (IDIQ) contract has a maximum order limit of US\$855 million over a period of five years.

The scope of work of the **Marine Corps Logistics Support Services (MCLOGSS)** contract includes comprehensive support services in the areas of logistics, supply chain, and distribution management; maintenance management; and strategic prepositioning capability.

MCLOGSS is comprised of three domains divided among full and open and small business awardees. Jacobs has been selected as one of nineteen companies to provide services in the Unrestricted Suite, designated for full and open competition. Services being provided encompass support for program management and operations, specialized information technology, logistics training, program support, transportation and supply, maintenance operations, and logistics technical data. Services are being performed primarily at Marine Corps Logistic Command's (LOGCOM's) Maintenance Center Albany, Maintenance Center Barstow, and Blount Island Command within the Continental US (CONUS), as well as at LOGCOM forward operating locations Outside the Continental US (OCONUS).

## Termination contingency plans for program managers

**The Pentagon is conducting a review to ensure program managers charged with developing and procuring the US military's portfolio of major weapon systems are also developing adequate termination contingency plans - including calculating potential government liability costs in the event a program is killed, according to a Defense Department official.**

Led by the Pentagon's acquisition directorate in response to a statutory mandate, the review is ongoing; no determination has yet been made over whether any change to current acquisition regulations or policy will be adopted, said a Pentagon spokeswoman.

"A review of relevant acquisition guidance was initiated that involved examining current regulatory, as well as policy guidance related to contract termination liability," **Maureen Schumann**, a spokeswoman for the office of Pentagon acquisition executive **Frank Kendall**, told *InsideDefense.com* in a July 12 email statement.

The Defense Authorization Act set a July 2 deadline for the Pentagon acquisition executive to "review relevant acquisition guidance and take appropriate actions to ensure that program managers for major defense acquisition programs are preparing estimates of potential termination liability for covered contracts." -*Inside Defense*

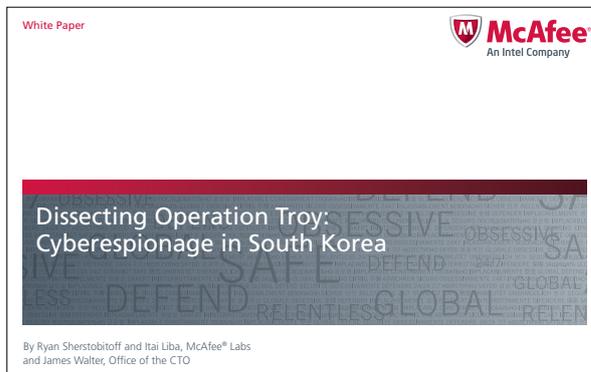


## UK links with defence companies to tackle cyberattacks

The UK Government has formed a partnership with nine domestic-based defence and security companies in an effort to boost the country's protection against cyberattacks.

The new **Defence Cyber Protection Partnership (DCPP)** is an alliance aimed at addressing evolving threats to the British defence supply chain by increasing awareness of cyber risks, threat intelligence sharing, as well as by defining risk-driven approaches for cybersecurity standards application.

As well as Ministry of Defence (MoD), Centre for the **Protection of National Infrastructure (CPNI)** and **Government Communications Headquarters (GCHQ)**, the partnership also includes **BAE Systems, BT, Cassidian, CGI, Hewlett Packard, Lockheed Martin, Rolls-Royce, Selex ES** and **Thales UK**. *-army-technology.com*



## McAfee uncovers evidence of military espionage campaign against South Korea

South Korea was hit by a major cyberattack on March 20, 2013. This cyberattack known as the **Dark Seoul Incident**, caused a significant amount of damage to the affected organisations by wiping the hard drives of tens of thousands of computers.

When reports of the attack emerged, most of the focus was on the **Master Boot Record (MBR)** wiping functionality. PCs infected by the attack had all of the data on their hard drives erased.

**Ryan Sherstobitoff**, senior threat researcher at **McAfee**, has discovered that the Dark Seoul attack includes a broad range of technology and tactics beyond the MBR functionality.

A full copy of the report can be found [here](#).



## Eurocopter develops quieter helicopter landing procedures

**Eurocopter has successfully demonstrated new landing procedures relying on augmented satellite guidance that can be tailored to more completely comply with the local environmental requirements.**

These new landing procedures were validated with a twin-engine **Eurocopter EC155** during flight tests performed as part of the company's participation in the Green Rotorcraft Integrated Technology Demonstrator program – which is part of **Europe's Clean Sky Joint Technology Initiative**.

Eurocopter's validation flights demonstrated significant reductions in the helicopter's perceived sound footprint - consistent with predictions. They also confirmed that such automated low-noise approaches could be tailored to local environmental requirements, thereby optimizing Eurocopter helicopter operations for even the most sensitive environments.

The flight testing involved the use of optimized noise abatement flight paths compatible with **Instrument Flight Rules (IFR)** operations. During the EC155's landing approaches, vertical guidance was provided by EGNOS, the European **Satellite-Based Augmentation System (SBAS)**, with the helicopter's **Flight Management System (FMS)** coupled to the Automatic Flight Control System (AFCS). This enabled the new approach profiles to be flown accurately, minimizing the pilot workload with an automatic monitoring of speed profiles and ascent/descent rates.

## FORTHCOMING EVENTS.....page 12



# 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)

## DSEI

**DATE:** 10-13 September, 2013, ExCel, London

**ENQUIRIES:** Web: [www.dsei.co.uk](http://www.dsei.co.uk)

DSEI is the largest fully integrated defence and security show in the world, featuring Air, Naval, Land and Security show content. Based in ExCel, London every two years, the event provides unrivalled access to key markets across the globe.

ADM will  
be in  
attendance

## SimTecT

**DATE:** 16 - 19 September, 2013, Brisbane Convention and Exhibition Centre, Queensland

**ENQUIRIES:** Web: [www.simtect.com.au](http://www.simtect.com.au)

SimTecT is the annual Simulation Technology and Training Conference held by Simulation Australia.

ADM will  
be in  
attendance

## 2nd annual ADM Defence Support Services Summit

**DATE:** 19 September, 2013, Hyatt Hotel, Canberra

**ENQUIRIES:** ADM Events - Jamie Burrage, Ph: 02 9080 4321;

Email: [Jamie.burrage@informa.com.au](mailto:Jamie.burrage@informa.com.au)

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

A must-attend for any organisation currently doing business with Defence, or for those wanting to gain a foothold in the service delivery of defence support.

ADM will  
be in  
attendance

## Pacific 2013

**DATE:** 07 - 09 October, 2013, Sydney Convention & Exhibition Centre, Darling Harbour

**ENQUIRIES:** Web: [www.pacific2013imc.com](http://www.pacific2013imc.com)

Pacific 2013 IMC provides a unique opportunity for people involved in maritime and naval affairs around the world to discuss the latest maritime developments in design, naval architecture, engineering,

ADM will  
be in  
attendance

## 2013 Maritime Environment Working Group Conference

**DATE:** 10 October, 2013, Sydney

**ENQUIRIES:** Web: [www.govdex.gov.au](http://www.govdex.gov.au)

This meeting will provide another opportunity for defence and industry representatives to discuss the latest updates with regard to DCP projects. RSVP no later than 30 September 2013 on the MEWG Govdex site.

## SIA 2nd Submarine science, technology and engineering conference

**DATE:** 15 - 17 October, 2013, Adelaide

**ENQUIRIES:** Web: [www.submarineinstitute.com/sia-conferences/](http://www.submarineinstitute.com/sia-conferences/)

The peak event in Australia for engineering of what is one of the most complex Defence assets - conventional submarines. In addition the conference covers the full range of underwater technologies, many of which are relevant and in use for under-sea resources exploration and exploitation.

ADM will  
be in  
attendance

## Safeskies

**DATE:** 16 - 17 October, 2013, Hotel Realm Canberra

**ENQUIRIES:** Web: [www.safeskiesaustralia.org](http://www.safeskiesaustralia.org)

Safeskies Conferences is an Australian based not-for-profit organisation which holds a biennial aviation safety conference in Canberra. The 2013 conference has as its theme 'People and Technology', and speakers will probe some of the issues surrounding this theme.

## ADM Northern Australia Defence Summit

**DATE:** 29 Oct - 30 October, 2013, Darwin Convention Centre

**ENQUIRIES:** ADM Events - Jamie Burrage, Ph: 02 9080 4321;

Email: [Jamie.burrage@informa.com.au](mailto:Jamie.burrage@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..

ADM will  
be in  
attendance

