Biggest Thai Defence Trade Fair Opens for Business



By ADJ Team

Amid the backdrop of global economic headwinds and expanding multifaceted

threats of terrorism, migrant exodus and issues over the South China Sea, the latest iteration of Bangkok's Defense & Security exhibition opens today as major industry



Gen Prayut Chan-o-cha

players returns to the Thai kingdom's capital to woo regional countries with their latest wares. Dubbed as the Bangkok show, the tri-service event for land, sea and air will be held over four busy days, reconvening leading companies in the security and defence sphere at the huge IMPACT Exhibition and Convention Centre, with their state-of-the-art technology for both private and government requirements.

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Thailand to Modernise and Transform Armed Forces, says Defence Minister

By MG Mahmud

The Thai armed forces will be boosting its modernisation and transformation efforts under a new ten-year programme to face current and future threats, Deputy Prime Minister and Defence Minister Gen Prawit Wongsuwon said.

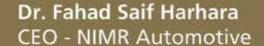
The Ministry of Defence will focus the armed forces' combat readiness capabilities to cope with all the different dimensional non-traditional threats both in the short-term and long-term. "For this, we have formulated the so-called "Ministry of Defence Reform Plan" which divides the development of the

armed forces into two phases," he told Asian Defence Journal or ADJ in an interview ahead of the 2015 Defense & Security show.

For the first five years, he said, "we will focus on reforming the management of the Ministry of Defence and strengthening the armed forces combat readiness capabilities in terms of personnel, equipment, doctrines and training which will include capability improvements to national defence missions, joint operations with allied armed forces and ASEAN as well as enhancing the armed forces capabilities to support the government." continued on page 10



CEO MESSAGE





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Today's battlefield poses a variety of challenges and NIMR has adapted to meet the emerging requirements of military and internal security forces. NIMR vehicles are designed to integrate with a variety of mission systems to enhance effectiveness, situational awareness and military command and control. The exceptional mobility of the vehicles provides tactical advantage through outstanding terrain accessibility and the NIMR range includes physical protection for survivability from IED, blast and ballistic threats.

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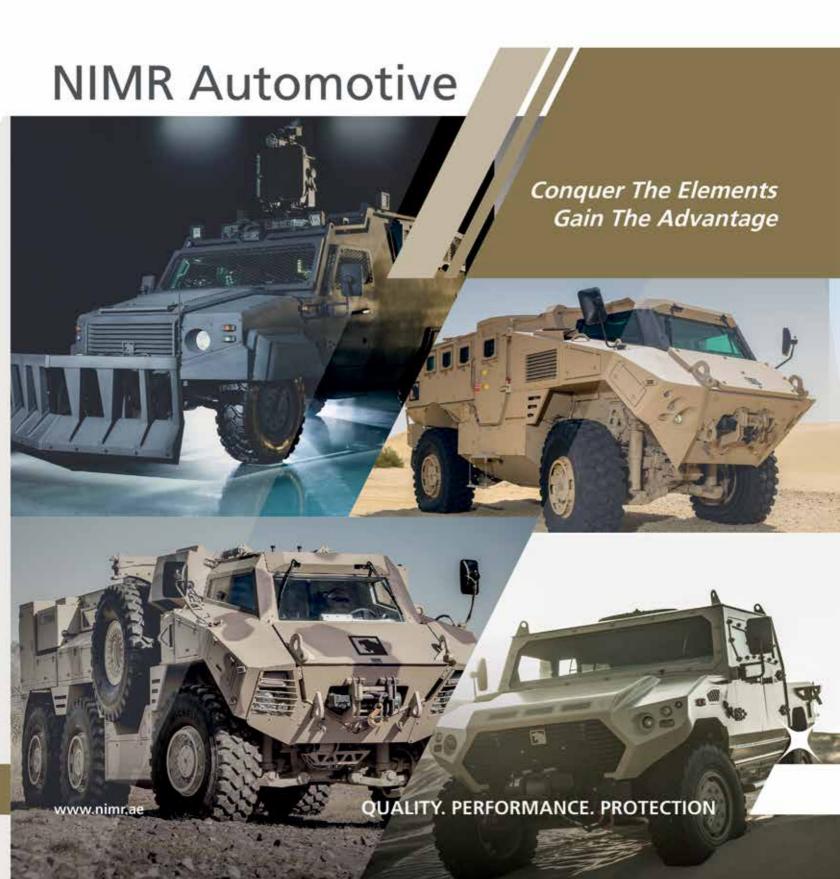


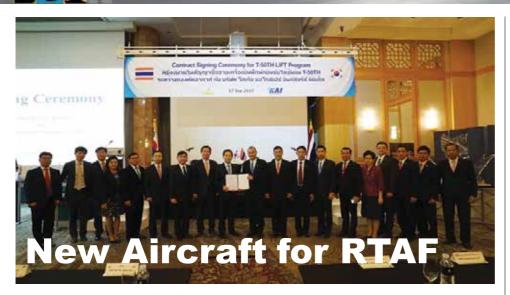
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Dr. Fahad Saif Harhara CEO - NIMR Automotive

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Thailand's force modernisation drive is set to continue with the purchase of new aircraft for its air force. Two years ago, the kingdom has taken delivery of 12 fighter aircraft, Saab JAS 39 Gripen. Now, in recent months, the Royal Thai Air Force (RTAF) air assets continue to grow with new contracts signed for new trainers, and delivery of rotorcraft.

T-50TH Trainer Jets to RTAF

The kingdom, in recent September, signed a contract worth \$110 million with Korea Aerospace Industries (KAI) to deliver four advanced and tactical T-50TH trainer jets to the RTAF. Under this contract, KAI is responsible for delivering the aircraft to Thailand within 30 months.

The new aircraft is expected to replace the RTAF's ageing L-39 advanced trainers and the tactically introductory jets. The RTAF has been using Czechoslovakianbuilt L39 jets for more than 30 years. In 2014, the Thai government approved \$103 million for the replacement programme. The new T-50TH will be equipped with high training and tactically introductory capabilities as a single platform and it will also be capable of meeting the requirement of a light attack function. According to KAI, the latest development is expected to serve

as a chance for the company and the RTAF to establish a long-term partnership agreement.

Thailand Get First Four EC725

The RTAF has taken delivery of the initial four EC725s from Airbus Helicopters, boosting the service's search and rescue and troop transport duties. The order of four EC725s was signed in 2012, with



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the deliveries having just been completed. They are expected to begin operations later this month, the company said in August this year. Two additional EC725s were booked in 2014 for deliveries to the RTAF next year. Delivering excellent flight autonomy and seating 28 persons, this powerful helicopter is perfectly tailored for the RTAF's combat search and rescue (SAR) missions, search and rescue flights, troop transport operations and other tasks. Other than Thailand, neighbour Malaysia has been operating its fleet of 12 aircraft, performing numerous SAR missions at high availability rates. Indonesia ordered six units of the aircraft. The first helicopter was delivered to the republic in November last

Royal Thai Army for STARStreak

Thales recently announced that it has signed a multi-million pound contract with DataGate in Thailand to supply the Royal Thai Army with the STARStreak air defence missile system. This contract follows on from Thailand's initial purchase of STARStreak in 2012. The system comprises STARStreak missiles, the world's fastest very short range air defence (VSHORAD) missile and Lightweight Multiple Launcher (LML). The LML tripod-based system al-

Royal Thai Army Places Additional Order

lows swift deployment of STARStreak missile to deal with attacks from low-level fighter aircraft, Unmanned Air Vehicles (UAVs) and attack helicopters. The system plays a key part in the air defence forces continued commitment in protecting the Kingdom of Thailand.

Victor Chavez, CEO of Thales in the UK, said: "STARStreak is the leading VSHORAD system in the world today, enabling nations

against both emerging and established threats. We are honoured to continue to serve the Royal Thai Army as a key supplier for Thailand's advanced air defence capability."

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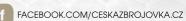
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Defense & Security 2015 is the largest and most comprehensive defence exhibition held in Thailand and with the full support from the kingdom's Ministry of Defence and the Royal Thai Armed Forces. The show has become a "must-attend" event for all in the defence and security industry and has now been held for 12 successful years, each time doubling in size. The 2015 event offers unique opportunities for Thai and ASEAN militaries and security personnel to inspect the latest equipment from world-class manufacturers at one convenient location. The 2015 event continues to feature over 400 companies from 50 countries. National displays will include pavilions from Russia, Israel, Singapore, Thailand, South Africa, UK, Germany, US, Italy, France, Korea, China, Sweden, Canada, Romania, India, Indonesia, Malaysia, Turkey and Japan. Over 13,000 trade visitors from 50 countries and more than 170 official delegations including Ministers of Defence, Chiefs of Armed Forces and high-ranking government officials from 81 countries are also expected to attend. At press time, the official opening ceremony is expected to be presided over by Thailand's Deputy Prime Minister and Minister of Defence, Gen Prawit Wongsuwon.

2015 marks the historic union of ten ASEAN nations to form the ASEAN Economic Community. In keeping with the event ASEAN is now fully embarked on military modernisation, making it the fastest-growing region for military spending on the planet. The powerful combination of these ten ASEAN nations is a unique development and presents a special window of opportunity for military manufacturers.

In 2015, it was reported that ASEAN defence spending will surpass that of Europe for the first time in over half a millennium. By comparison Asian countries outside ASEAN have only increased their military modernisation in the last few years.

Full Display of Defence and Security Technology

The 2015 exhibition will feature the latest defence and internal security equipment, which include weapon systems, guns, mis-



Spending on Asia

Growth in Asian defence spending is expected to accelerate from 3.3% in 2014 to 4.8% in 2015. ASEAN states are already pushing ahead with programmes to modernise their respective industrial defence bases. Underpinned by expanding economies and driven by a requirement to enhance self-sufficiency, most governments in the region are channelling modernisation efforts through indigenous programmes and defence strategies that are intended to secure technological know-how from military exporters.

Regional defence spending in the major states of Southeast Asia currently stands at \$38.5 billion. Overall, the region is poised for high defence spending and military procurement from 2012 to 2020. With increasing technological advances and economic developments in the region, as well as the need to replace obsolete technology, defence spending in ASEAN is expected to continue growing steadily. Between 2012-2013 alone, regional military expenditures increased by 10% and are estimated to surpass \$40 billion by 2016.

As for Thailand, the country already has the third largest military expenditure in the region, behind Singapore and Indonesia. For 2015, military expenditure was only 1.5% of GDP, below the regional average of 2.2%. Spending increased sharply in 2015 following the coup. Thai cabinet in late April proposed a 2016 defence budget of \$6.3 billion, 7% above the 2015 level. According to budgetary figures announced by the government, the budget will represent nearly 8% of the total state expenditure in the year. The budget will be submitted to the National Legislative Assembly for approval in mid-year before the beginning of Thailand's new fiscal year at the end of October. Although no details have been given on the breakdown of the defence budget, the Royal Thai Army traditionally receives around half the expenditure with the Air Force and Navy each receiving about 22%.

"If we don't increase the budget and purchase new weapons, then nobody will fear us," Gen Prayut Chan-o-cha, Prime Minister of Thailand was quoted as saying in the Bangkok Post.

siles, tanks, UAVs, transport vehicles, vessels, satellites, telecommunications and a wide range of electronic defence technology. Manufacturers of fire control systems, launchers and other important military systems and hardware will also be present. The internal security section will display equipment ranging from security products such as CCTV, intruder alarms, access and electronic security, personal hand guns, body armour, riot control equipment, protective gloves, night-vision technology, communication jamming devices and many other cutting-edge products from major manufacturers.

High-Level Conferences

Several highly informative seminars and conferences, along with live demonstrations will run in conjunction with the Bangkok show. The international seminar on "Defence Industry Collaboration" is scheduled to be held on Tuesday, Nov 3, 2015

at Hall 6, organised by the Defence Industry and Energy Centre and Ministry of Defence. The purpose of the seminar is to establish cooperation among the defence industrial organisations, to promote and enhance the role of the defence industries, to learn on the trend of ASEAN defence industry and capabilities from the view of media and learn on the successful factors of defence industry col-

laboration from the academic sector.

Another must-attend seminar is "Cyber Security Seminar and Desktop Exercise". It is organised by the Defence Information and Space Technology Department, Ministry of Defence, with the cooperation of Malaysia's National Cyber Security Specialist Centre of Ministry of Science, Technology and Innovation. The panel discussion on "Coherent Approach in Mitigating Cyber Treats" will be conducted by representatives from international CERT and Thai-CERT including the Desktop Exercise on "Security Critical Infrastructure Against Cyber Attacks".

Both sessions will discuss and share ideas on how to acquire an effective regional coherent approach against cyber attacks and how regional nations should respond to minimise the impact of this threat.

Live Showcases

Visitors could also look forward for both indoor and outdoor live demonstrations that will be conducted during the show days. The Israel Military Industries will showcase its armoured 4x4 tactical vehicle that boasts the capabilities enough to make current Humvee type of vehicles blush. First unveiled at the 2014 Eurosatory exhibition, the CombatGuard wears massive 54 inch tires and has 3ft of ground clearance, allowing it to navigate 70-degree slopes with ease. It can hurdle vertical obstacles up to 2.6ft high and can traverse through water 5ft deep.



KOREA-THAILAND

Defense Industrial Cooperation กลาใหม่ อุตสาหกรรม ความรถมมือ

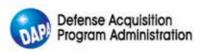


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Product	Company B	ooth
Submarine, Destroyer, Frigate, Missle Corvette, LSV, ETC	DSME	K1
• FA-50 Light Combat Aircraft, KUH-1 Korean Utility Helicopter	KAI	Ji
• 40mm Ammunition	Hanwha	L7
 Long Range Thermal Obersevation Device 	Hanwha Thales	L8
• 155mm Self-propelled Howitzer Ammo.	POONGSAN	L1
• 105mm Towed Howitzer	HYUNDAI-WIA	L7
• 5.56mm Carbine	S&T Motiv	J7
Intercommunication Set	Yeonhab Precision	K8
• Gun Barrel Automatic Inspection Robot	SDI	K7
UAV, GPS Navigation Device	UCONSYSTEM	M1
Helicopter MRO Service	UI Helicopter	
 Laser Aiming Device, Dot Sight, Thermal Sight 	UTECH	

Product	Company B	ooth	
Thermal Imaging Camera, Thermal Weapon Sight, Night Vision	E0 System	M1	
Long Range Day / Night Integrated Surveillance System	SKY Global Networks		
Optical Sights for Artillery	Woo Kyung Optics		
Tactical Sniper Scope, Night Vision Device	Focus Optech		
NBC Gas Mask	SanCheong		
Gun Barrel Automatic Cleaner	Bolyung Engineering	ring	
Reconfigurable Tactical Training Platform for Flight Simulator	Naviworks		
• Digital Surge Protection Solution	GROUND		
NVIS Lighting Panel for Aircraft	KOMACO		
 Total Ground Support Equipment, Avionics and MRO for Aircrafts 	ERAP KOREA		









Aerial display of KAI products. RoKAF KA-1 armed aircraft (left), T-50 series advanced jet trainer and light combat aircraft (middle), and KF-16 fighter (right).

In the history of Korea's aerospace industry which began in the late 1970s, Korea Aerospace Industries (KAI) is the only eligible aerospace system integrator in South Korea with full capabilities to design, test and evaluate, and manufacture aerospace systems, particularly military fixed/rotary wing aircraft.

KAI was established in 1999 through the consolidation of three major aerospace companies in Korea (Samsung Aerospace, Daewoo Heavy Industries and Hyundai Space and Aircraft Co). This consortium came from the Korean government policy that pursued the single aerospace business entity to enhance the competitiveness of the national aerospace capabilities.



Since its initial engagement in aerospace, KAI has been actively involved in various military and commercial programmes including KF-16 (F-16 C/D Block 52) fighter license production, development and production of KT-1 basic trainer, KA-1 armed, T-50 advanced jet trainer (AJT), TA-50 lead-in fighter trainer (LIFT), FA-50 light combat aircraft (LCA), unmanned air vehicle (UAV), Korean Utility Helicopter, KC-100 general aviation aircraft, military upgrades and modifications programmes P-3CK, C-130, E737 AEW (Airborne Early Warning), commercial aero-structure programmes, and the satellite programmes. KAI has also been selected as a prime contractor for Light Civil Helicopter and the Light Armed Helicopter programme (LCH/

LAH) from the Korean government and will soon take the leading role in KF-X Korea Fighter development programme.

In the area of international sales, the KT-1 series has been exported to Indonesia (KT-1B), Turkey (KT-1T) and Peru (KT-1P armed version) while the T-50 series has been exported to Indonesia (T-50i LIFT), Iraq (T-50 IQ Fighter) and the Philippines (FA-50 Fighter). Most recently in September this year, the Royal Thai Air Force has selected the T-50 to replace their legacy LIFT aircraft and has awarded a contract to KAI.

KAI and Lockheed Martin Aeronautics jointly developed the T-50 total training system to train pilots for advanced fourth and fifth generation fighters. The Aircraft, Ground-Based Training System, and Integrated Logistics Support Group have been serving the Republic of Korea Air Force

(RoKAF) since 2006. Today the RoKAF is using the T-50 for advanced jet training and lead-in fighter training. Students who graduated from the T-50 have move directly to operational fighters such as the F-16. The RoKAF has envisioned the T-50 series to be a light attack aircraft since its development stage and thus it inherently has combat fighter performance and capability. The FA-50 fighter attack version has been developed and is currently being delivered to RoKAF and other international customers. The aircraft is replacing the legacy F-5 Tiger and F-4 Phantom including other similar aircraft in its class. As of today, more than 100 T-50s have been delivered to the RoKAF and other international customers. KAI currently has backlog of more than 100 firm orders. Both the T-50 and FA-50 series will be the best choice in its class for Asian and other international customers.



FA-50 fighter aircraft ground display with various weapons. AIM-9 Sidewinder air-to-air missiles, AGM-65 Maverick air-to-surface missiles, Mk-82 500lb bombs, SFW WCMD CBU-105 smart cluster bomb, and JDAM GBU-38/B 500lb bomb.



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continued from page 1

For the next five years, the Ministry of Defence will focus on the development of its structure to be compatible with modern public administration with emphasis to support the flexibility and modernisation of the armed forces to be able to operate in multi-dimensional situations.

He said in the first phase of the reform, preparation of personnel and equipment are the first priorities. For personnel preparation, developments will emphasise on individual and unit training, increased education at all levels, developments of doctrines and the revision of the Standard Operation Procedures (SOPs) including relevant operation plans so that they are appropriate and up to date. For military equipment procurement to enhance combat readiness, it is just as important as personnel preparation. "The armed forces must have sufficient, qualitative and appropriate military equipment to guarantee the national security and sovereignty of the nation to counter all possible threats. In addition, in time of peace, these equipment must be able to support the development of the nation and assist the people in time of crisis, both man-made and natural disasters," he said.

On submarines for the Royal Thai Navy, he said, procurement of submarines has been addressed in the Royal Thai Navy development plan since 2010 but has been put on hold. "Submarines are strategic weapons used as a deterrence to defend the sovereignty and safeguard the vast natural sea resources. Many ASEAN countries are aware of this fact and have procured and put into service many submarines for these purposes. As for Thailand, the Royal Thai Navy is in the process of justifying to the public on the necessity of procuring the submarines," Gen Prawit said.

Border Cooperation with Neighbours

On the Kingdom's border security cooperation, the Deputy Prime Minister said that Thailand is linked to some ASEAN states by land. "To ensure appropriate measures are exercised to ensure security along the borderline, the kingdom has signed many border security agreements with the states involved."

According to Gen Prawit, the present political and military relationships between Myanmar and Thailand as well as Cambodia and Thailand are excellent, even though there are still some problems over the border demarcation lines and some disputed overlapping areas between the two neighbouring countries. However, he said, by relying on the pre-established joint military cooperation mechanisms used to jointly administer the border areas, most problems are resolved amicably.

ISIS Threat Among Focus at ADMM-Plus Meeting

Issues related to the threat posed by the so called *Islamic State* or Daesh militant group will be among the key focus at ASEAN Defence Ministers Meeting (ADMM)-Plus. The meeting, which will be held Nov 2-5 in the Malaysian capital of Kuala Lumpur, will also see US Defence Secretary Dr Ashton Carter and China's Defence Minister Gen Chang Wanquan, representatives from ASEAN dialogue partner countries as among the attendees. Thailand's Deputy Prime Minister and Minister of Defence, Gen Prawit Wongsuwon will be representing the Kingdom at the meeting.

ASEAN's eight dialogue partners in the ADMM-Plus are Australia, China, India, Japan, New Zealand, South Korea, Russia and the United States.

"Some of the joint military cooperation mechanisms in place are the General Border Committee, Regional Border Committee and Local Border Area Coordination Teams. These cooperation mechanisms have been established to prevent and to ensure that localised problems do not escalate to become detrimental to the overall peace and security of the people along the border areas of the two countries."

Security in Southern Thailand

The Royal Thai Armed Forces has the role to continually support military personnel from the army, navy, and air force to operate in the southernmost provinces of Thailand. "Other than the importance of providing security to lives and properties of the people in the area, the Armed Forces also adhere to an important royal guideline of "Understand, Reach Out and Develop" including the concept of using peaceful means without the use of force in resolving and performing their duties." Gen Prawit said by applying these guidelines and concepts, the situations have improved, which are measured by comparing the number of incidents and number of loss of lives and injuries within the last six months to the same period of time in the previous year. It was found that the numbers have reduced by half. Furthermore, the government has placed emphasis on peaceful negotiations. Presently, there have been many rounds of talks with the dissenters; hence, there have been respective advancements. "As a result, we have been successful to bring dissenters to the peace talks." Gen Prawit

"In the peace process, the government emphasises on its sincerity to resolve the problem in the southernmost provinces and hopes that the dissenters join in the discussion and cooperate with the authorities in the peace talks so that peace and security could be brought back to the people in the area," he added.

Malaysia-Thai Border Wall

Gen Prawit also said that the perpetrators of violence in the southernmost provinces of Thailand have been using some of the areas where there is little or no military troop deployments to evade capture in the

neighbouring country. There are also problems such as smuggling of goods and the entering or exiting Malaysia or Thailand, either illegally or unintentionally. Therefore the concept of building a wall or fence along the border was proposed for consideration as a mean to stop any criminal activities along the border area.

"The progress of the wall or fence construction is still under discussion with the Malaysian authorities on the appropriateness and feasibility for constructing of this wall or fence along the Malaysian-Thai border to become part of an effective measure in administrating the area for both countries," Gen Prawit said.

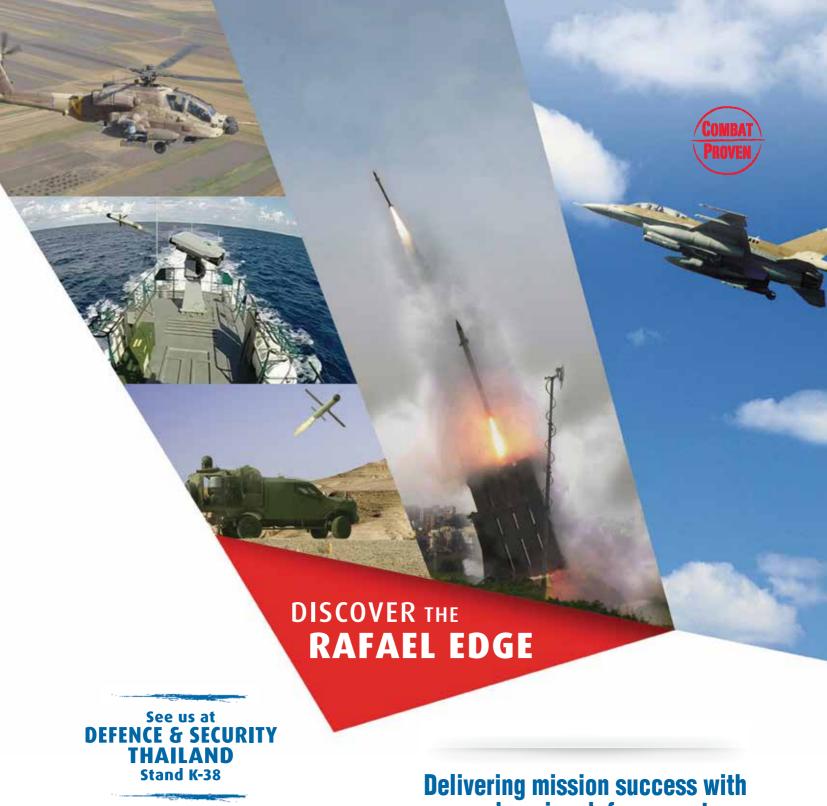
Cyber Security

In managing cyber security, Gen Prawit said, the Ministry will give precedence to three groups. Firstly, the strengthening of cyber defence readiness. Secondly, joint cyber defence at the national level and, thirdly, seek and develop cyber defence cooperation with friendly countries. In the seeking and developing of cyber defence collaboration with friendly countries, the Ministry of Defence understands the importance of such cooperation as it is the foundation of creating an atmosphere of friendship, a factor to help reduce and prevent any mistrust and disputes that may arise presently or in the future. The Ministry of Defence, he said, also emphasises continued activities to support and promote cyber defence collaboration in the forms of bilateral and multilateral cooperation within the ASEAN group, the Asia-Pacific region as well as other friendly countries in order to promote safe and creative cyber employment in the future.

Collaboration with ASEAN

Gen Prawit Wongsuwon also gave his view on Thailand's role in ASEAN, saying that Thailand has a long history of collaboration with other Association of Southeast Asian Nations (ASEAN) member states. Being one of the founding members of ASEAN, the kingdom has been cooperating with other members in various fields, encompassing economy, politics, as well as defence and security.

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French land systems company Nexter unveiled an upgraded 32-ton version of the 8x8 vehicule blinde de combat et infanterie Mk2 (VBCI Mk2) aimed at export markets. Some of the improvement include a new Volvo D13 engine designed for commercial

vehicles, generating 600 brake horsepower compared to 350bhp on the previous D12 powerplant. There is more headroom, improved air conditioning, new shock seats built to protect troops from mines and a Nexter onboard communications network

designed for plugging in the Sagem FELIN infantry sensor system. Improvement was also made to the air conditioning for better climate control based on the experience gained from the French Army's operations of the VBCI in the Mali campaign. The company has presented the VBCI in a tender held by Qatar, which reportedly is looking to acquire between 200 and 600 units. The British Army put a Nexter VBCI through trials from October 2014 to May 2015.

Nexter also introduced an export version of the truck-mounted cannon Caesar, which drew on lessons learned by the French Army's overseas deployment. The upgraded 155mm, 52-calibre artillery cannon was fitted on an extended eight-wheel drive chassis, longer and heavier than the six-wheel drive version the French Army deployed in Afghanistan and Mali. The proposed export model is heavier, reflecting an armoured cabin, carrying more fuel and 30 shells compared to the present 18. However, the extended version is intended for deployment by road rather than flown in by air transport. The Caesar in the French Army is fitted on a Renault chassis, reflecting a preference for a domestic supplier, while export customers can pick foreign suppliers such as Mercedes Unimog. Nexter teamed with Ashok Leyland for a six-wheel chassis in an Indian artillery tender. The Royal Thai Army's version similar to the French is fitted on a 6x6 Renault chassis.

UK Looks for Regional Partners in Thailand

UK companies involved in producing some of the most cutting edge defence technologies in the world are exhibiting at Defence & Security 2015 (D&S 2015) in Bangkok, Thailand, many for the first time. The UK theme is "Partnership" as UK companies look to build new industrial joint ventures in Thailand and the region. This attendance by UK companies at the exhibition reflects the continuing importance of the kingdom as a longstanding defence industrial partner for the UK.

British Army soldiers from UKTI Defence and Security Organisation's (UKTI DSO) Export Support Team will be also be on hand to demonstrate a range of UK capabilities, some for the first time in Asia.

Stuart Cole, Assistant Director for Southeast Asia in UKTI DSO said: "D&S 2015 is an important opportunity for attending UK companies to look at joint ventures and industrial partnerships in Thailand and throughout the region. We are delighted to be able to showcase some of the UK's world leading defence technologies at this important exhibition."

UK companies/organisations exhibiting include BAE Systems, SEA, Chemring,



Selex ES, Tyron Runflat and the UK Ministry of Defence's Disposal Services Authority.

The UK Trade & Investment (UKTI) is the government organisation that helps

UK-based companies succeed in international markets and targets high quality inward investment for the UK. UKTI will be present at the show to support these companies.

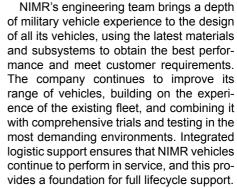


BAE SYSTEMS
INSPIRED WORK



NIMR (Arabic word for "Tiger") is a major manufacturer of light and medium weight wheeled military vehicles. Based in the United Arab Emirates, NIMR vehicles are currently in service with the armed forces across the MENA region and have a reputation for versatility, ruggedness and performance. With a complete in-house design capability and modern production facilities, NIMR provides a total solution to meet defence needs.

Having built a reputation for exceptional performance in the harshest desert conditions, NIMR vehicles provide the tactical mobility required to meet a diverse range of operational requirements on the modern battlefield. Based on a unique, modular 4x4 and 6x6 chassis and driveline, NIMR provides utility, logistic and command variants as well as protected patrol vehicles, all with a range of protection options.



The NIMR vehicle platform is ideal for a variety of mission systems. Integration through vehicle electronic architecture allows for a range of systems to be mounted, from C4I and ISTAR capabilities to complex weapon fits. This platform versatility enables NIMR to deliver the capability required for any scenario.





In mid-2012, NIMR was issued the prestigious "STANAG 4569 Level 3" certification by an independent testing authority for its latest vehicle, the NIMR 6x6 armoured personnel carrier (APC). The certification is based on standards set forth by the North Atlantic Treaty Organisation (NATO) Standardisation Agreement. With this acquired certificate, NIMR now produces 6×6 vehicles that have Level 3 mine and ballistic defence solutions for optimum terrain performance, as defined by NATO. It is the first time that a 6x6 armoured personnel carrier created in the Middle East region has achieved such status. All of NIMR's vehicles are entirely designed, manufactured and assembled in the United Arab Emirates. Some of their top-notch tactical vehicles include the Ajban 440A armoured 4x4, N35 6x6 MRAP and 4x4 Ajban ISV for internal security usage.





Ljungberg has been working as a test pilot since 1998, first for FMV, the Swedish Defence Materiel Administration, and then for Saab from 2004 onwards. He has flown all versions of the Gripen, from model A to D up through to the two-seater Gripen NG test aircraft.

"Flying is one thing, but flying a mission is something else," he explains. "Every pilot needs to train for missions. Because Gripen is so responsive and easy to fly, the pilot can concentrate on performing the mission

fully."

"In a modern fighter, there is an enormous amount of information for the pilot to deal with but Gripen offers significant advantages." Ljungberg who has 3,000 flight hours under his belt–explains further: "The cockpit computer only shows me the information at the specific time that it is needed. I never feel overloaded and can concentrate fully on my task."

"If I'm flying an attack mission for example, I don't need to know anything about the hydraulic system or the standby instruments. As a result, the pilot becomes more efficient. In addition, if a system fails, the backup system pops up digitally on the

display. This means that the display area is used to maximise the chance of mission success."

Gripen NG and Gripen D (background).

Gripen is a true multi-role fighter aircraft, capable of performing an extensive range of air-to-air, air-to-surface and reconnaissance missions employing the latest weapons. Using the latest technology, it is designed to meet the demands of existing and future threats, while simultaneously meeting strict requirements for flight safety, reliability, training efficiency and low operating costs.

"For me as a pilot, the Tactical Data-Link of Gripen is a huge advantage and I know how well that contributes to a modern defence."

Unlike other "stealth" fighters being developed, Gripen follows a balanced design, making it well prepared for a future that is difficult to predict. Saab choses a balanced design solution where multi-spectral reduction of the aircraft's visual, infrared and radar signature reduces detection without compromising its performance and manoeuvrability.

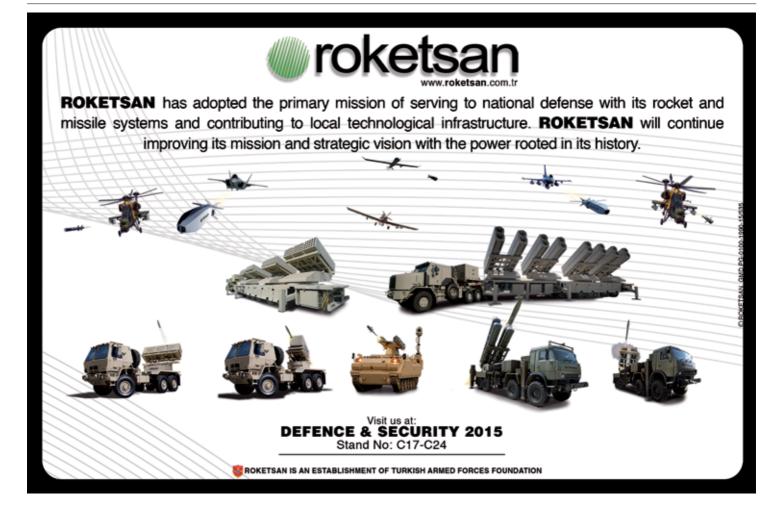
One of Turkey's leading defence companies and the main solution provider to the Turkish Armed Forces, ASELSAN designs, develops and produces state-of-the-art products and systems for military and professional applications since 1975.

The multi-product company develops and produces genuine, leading edge technology products to meet the requirements of the Turkish Armed Forces and Public Security Entities as well as the world militaries. ASELSAN provides its customers with high-tech system solutions for land, airborne, naval and aerospace applications in the fields of military communications, radar, electronic warfare, electro-optic, navigation and avionics including weapons, C4ISR, naval, homeland security and traffic and toll collection systems.

Maintaining its steady growth since 1975, ASELSAN is the fastest growing technology company in Turkey and has reached a high level of importance, attributed to its highly skilled and qualified manpower and extensive research and development activities. In addition to the investment made in the defence sector, the company also continues to invest and grow in the transportation, security and energy fields.



As of today, ASELSAN has exported its products to 50 countries and actively participates in NATO joint research/development and production programmes. ASELSAN has become one of the significant members of global defence industry in terms of revenue and technological advancements.





One of Israel's top defence companies, Rafael Advanced Defense Systems recently present the newest version of the Trophy tank defence system. The larger defence system, known as Windbreaker, has been successfully protecting Israeli tanks and armoured personnel carriers (APCs) since 2009. The Windbreaker system has been combat-tested numerous times in various conflicts, both at distances and in close guarters, in military campaigns. The newest version, dubbed Trophy LV, was developed to meet the defence needs of lighter vehicles manoeuvring the battlefield. The system protects vehicles of all sizes, from small vehicles such as four-wheel-drive trucks to armoured vehicles such as Hummers and jeeps, as well as infantry fighting

According to Rafael's website, the new system was designed to protect primarily against short-range threats. These generally consist of shoulder-fired weapons such as rockets or grenades. It is suitable for both traditional battlefield and urban warfare.

The system, which can be adapted to a range of platforms, is based upon the same technology as the larger Windbreaker system as well as the Iron Dome system.

The website continued to tout Trophy LV's modular system, which combines radar and electro-optic sensors. The sensors ensure rapid detection and assessment capabilities and provide 360-degree protection for the vehicle on which it is mounted.

The protection applies to windows and doors as well as the remainder of the vehicle's body.

According to the company spokesperson, "Hundreds of Trophy-equipped tanks participated in Protective Edge and the results were crystal clear. When militaries and peacekeeping forces are facing millions of relatively cheap weapons in the hands of terrorists and other organisations, you'd better have some kind of protection, like Trophy, if you want to survive."

Latest Drone Killer

At the same time, Rafael showed off its Iron Beam anti-drone laser system at the recent ADEX 2015 in Korea. While not yet deployed, the system is likely to become a standard feature of defence in years to come, as technologically advanced militaries look for cheap ways to destroy drones and incoming rockets.

Rafael's Iron Beam comes in two variants. One is designed to destroy rockets and mortar shells, stopping the small and cheap explosives before they land and cause damage. Another is designed to take out drones. The company says it's been very successful in tests, but has not revealed more information than that.

The range on these systems is just over one and a quarter miles, and they use radar to track targets first before switching to thermal cameras. The Iron Beam system fits in a shipping crate and can be used in place or mounted on the back of a truck. Because it is a laser weapon, it can keep shooting for as long as it has electrical power. Though considered expensive, the system makes it an ideal defence against low-tech attacks.





Turkish Defence specialist, Roketsan signed a memorandum of understanding with WZL1 covering future cooperation on a range of defence industry activities in July 2015. Under the terms of the agreement signed, the two companies will initially exchange business and technical information with the aim of verifying pos-

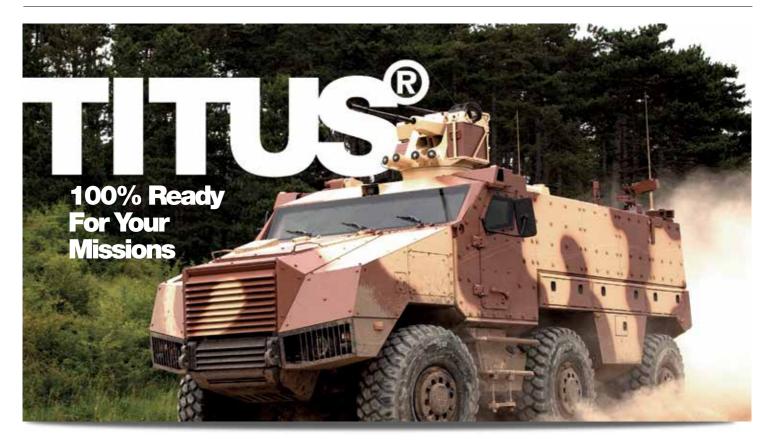
sible areas of cooperation.

The scope of the agreement is to formalise the intent of collaboration on products and programmes involving capabilities and solutions including, but not limited to the integration of 2,75" Laser Guided Missile CIRIT and Laser Guided Long Range Antitank Missile UMTAS on

various types of platforms in the inventory of the Polish Army. The MoU was signed by WZL1 Chairman of the Board, General Director Jan Piętowski and Member of the Board, Commercial Director, Zbigniew Średziński, and Roketsan Vice Chairman of the Board of Directors, Erguder Toptas.

Jan Piętowski said, "WZL1 is an expert and for many years have been developing and implementing the projects of different systems integration on the aircraft operated by the Polish Army. The initiative with Roketsan to integrate their systems on various types of platforms widens the portfolio of our activities and opens the door to be recognisable not only in Poland but also abroad. On the other hand our cooperation can be an incentive for future customers to be interested in our common work."

Erguder Toptas said, "Roketsan, is a leading company in defence for design, development and production of missile and rocket systems. At Roketsan we have provided combat proven technologies on the precision weapon systems such as Laser Guided 2,75" Missile CİRİT for our worldwide customers. We believe the result of this initiative will enable us to expand and deliver our systems to friendly nations and also extend to further business cooperation between the two companies."







The C-130H Hercules has proven itself time and time again throughout its 35 year history with the Royal Thai Air Force. Now as the time comes for Thailand to reassess its military aircraft needs, the C-130J Super Hercules stands ready for the call of duty.

The latest model of the legendary aircraft, the C-130J brings the same proven multi-mission flexibility Thailand has relied

on for years, with the added power of today's technologies and roll-on, roll-off mission systems that support operations from maritime patrol to combat delivery and humanitarian relief.

"The C-130J would bring new power to the Royal Thai Armed Forces," said Richard Johnston, director, Air Mobility Business Development at Lockheed Martin Aeronautics, "Technology has evolved and so has the Herc. The benefit of replacing a Hercules with a Hercules lies not only in its proven capabilities that pilots and crews have come to rely on, but also a seamless transition of operations, infrastructure and support."

Operated by 16 countries around the world, the C-130J is the airlifter of choice for Armed Forces ready to go where ever, whenever needed. And with improved sustainability and maintainability, it's sure to keep Thailand's shores and people safe for another 35 years.



Lockheed Martin in early October sent an F-16 Fighting Falcon multirole fighter cockpit demonstrator to Indonesia, in a bid to demonstrate the capabilities of the F-16V to the Indonesian Air Force.

The latest version of Lockheed's Fighting Falcon, the F-16V features advanced fourth generation capabilities, including scalable agile beam radar has attracted the interest of Indonesian defence planners in their efforts to replace its ageing fighter aircraft.

In addition, the aircraft offers enhanced mission computer, vehicle systems, aircraft structure, cockpit and electronic warfare system. According to Lockheed, the variants will be the predominant configuration for the F-16 worldwide fleet and the new avionics configuration represents the most significant F-16 upgrade so far.

Eurofighter representatives in August

F-16V Displayed to Indonesian Air Force

delivered a formal letter of support to Indonesia in conjunction with the procurement of the Eurofighter aircraft and associated technologies. In July, the Indonesian Air Force Chief of Staff Air Marshal Agus Supriatna had said that the force is planning to replace its exist-

ing Hercules aircraft with new transport aircraft.

Eurofighter Typhoon, built by a consortium of Finmeccanica, Airbus Group and BAE Systems, is a delta-wing, beyond visual range (BVR), close air fighter aircraft with surface attack capability.

US Presence at Defense & Security 2015

Looking to capitalise on regional economic growth, modernisation spending and changing defence and security requirements, US companies competing for air, land and sea contracts with Association of Southeast Asian Nations (ASEAN) member countries will showcase innovative technologies, equipment and services at Defense & Security 2015, Nov 2-5 in Bangkok, Thailand.

The US presence at the show, featuring industry leaders such as Lockheed Martin, Harris Corp and General Dynamics, is organised by Kallman Worldwide, the official US representative of the show, in coordination with numerous government agencies, including the US Commercial Service. The centrepiece of the national effort is the nearly 660sqm US international pavilion, a destination for buyers looking for an efficient way to meet a critical mass of US suppliers, and an on-site business hub for US exhibitors looking to maximise their exposure and time at the event. "When US companies commit to exhibit at Defense & Security, they're saying they believe in the power of this event to attract real business prospects and customers," said Kallman Worldwide President and CEO, Tom Kallman.

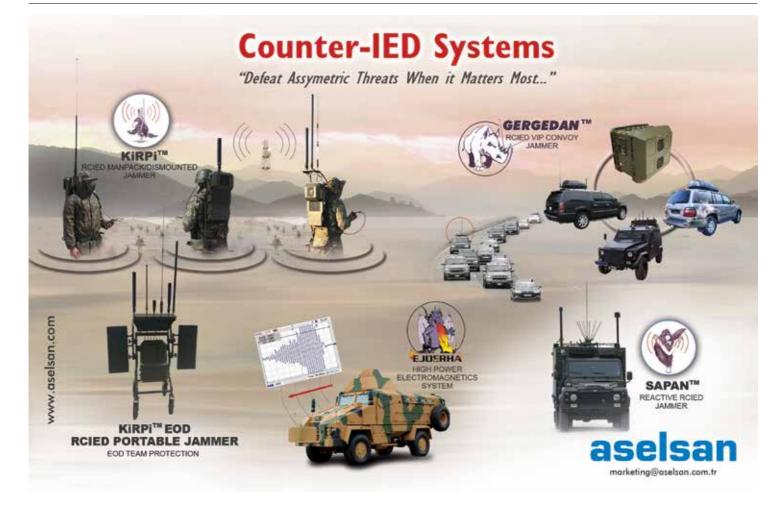
"As the organiser of the US international pavilion, our team is proud to help our exhibitors capitalise on this influential international business opportunity to grow their share of the regional marketplace, and further extend our nation's global defence and security leadership." The 14 US companies participating in the US International Pavilion range from publicly-traded stalwarts to privately-held innovators. They represent a cross-section of leading American suppliers looking for new export opportunities and to strengthen regional business relationships.

Highlights of the US presence include Universal Avionics' new InSight Integrated Flight Deck Avionics Suite, which the company plans to unveil at the show. The InSight system features an embedded SVS with advanced mapping capability. electronic charts, radio control, broadcast weather support and graphical flight planning. The second generation SVS includes three-arc second resolution, terrain shading, ice/water features, obstacles, urban area outlines, high-resolution airport maps, runways, taxiways, ramp areas and pilotselectable viewing angles. The electronic maps and charts feature airport/terminal, airway depiction, georeferenced ownship,



special use airspace and remaining runway distance.

In addition to organising the national pavilion, Kallman Worldwide is promoting all US exhibitors with its "Ask America First" on-site advocacy campaign. The message will be placed prominently around the US international pavilion, integrated into hospitality and VIP events during the show. and promoted in social media, which visitors could follow on Twitter@kallmanEWC. "The US is the world's biggest defence and security industry supplier, but that's no guarantee that buyers will look to work with US companies over others," said Kallman. "As the organiser of the US presence at Defense & Security since 2013, we have a responsibility to advocate not only for our exhibitors, but for our nation in this highly competitive global marketplace. We want every visitor to "Ask America First" at Defense & Security 2015." •



Interview with **Ryan Ives,** Regional Director,

Thailand, BAE Systems

ADJ Today: Can you brief us on BAE Systems presence in Thailand and the Southeast Asia region? How long has BAE Systems been in Asia?

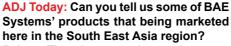
R. Ives: BAE Systems has been in Southeast Asia for over 20 years, with our regional hub in Kuala Lumpur, offices in Jakarta and Singapore, and an established office for more than 14 years in Bangkok. Throughout the region, including Thailand, we have an installed base across land, sea and air, and a growing presence in cyber. In addition, we see a number of opportunities for both new defence equipment, as well as upgrades.

ADJ Today: What is BAE Systems' marketing strategy in this particular part of Asia? How will BAE Systems continue to enforce its presence here?

R. Ives: BAE Systems' strategy in Southeast Asia is threefold. Firstly we are looking to work with local companies, either as joint-ventures or in partnership. BAE Systems has a strong record and recognised expertise in setting up partnerships and we are looking to replicate that here in the region. Secondly, it's about upgrades and support. Many countries in the region have had our product in service for many years and are looking to upgrade it to the latest standard. We are working with our colleagues in the UK and US to see how best we can support those clients. Finally, it's about offering new product and capability across land, sea, air and security.

ADJ Today: What are BAE Systems' short and long terms plans for the region?

R. Ives: The main thing is to continue a dialogue with customers, both new and current, to ensure that we are offering them the capability that they need for now and in the future. With a diverse product range, we are confident of delivering solutions for



R. Ives: There is a strong interest in our naval guns, M777 lightweight howitzer, Hawk and upgrades of armoured vehicles across the region. Cyber security, an important and growing part of our business, is also gaining a great deal of interest. While all of these are important programmes for us, so much of our business is about supporting our equipment, developing capabilities and delivering integrated solutions to deliver the best possible value to our customers.

ADJ Today: What has BAE Systems proposed to the Royal Thai Armed Forces to improve their defence capabilities in terms of assets?

R. Ives: BAE Systems has an installed base of defence equipment in service with the Royal Thai Armed Forces, including M109, L119 howitzers, M113s and AAVs. We stand ready to provide upgrades for these vehicles at the appropriate time.

ADJ Today: Tell us a bit of detail on the Royal Thai Navy's offshore patrol vessel? Will there be options for more? What will be the next upgrades or improvement on the OPV?

R. Ives: BAE Systems provided the design for the latest OPV (HTMS Krabi) and it is now in service with the Royal Thai Navy. As a new ship, we do not expect any upgrades just yet. However, the RTN is now looking at a second OPV and BAE Systems is working with Bangkok Dock, which has been appointed as manufacturer, to provide the design for that ship.

ADJ Today: Is there any other country that BAE Systems has or would proposed this OPV to?

R. Ives: Should any other country or navy in the region be interested in a solution





similar to that provided to the Royal Thai Navy, we would be delighted to discuss this with them.

ADJ Today: Can you tell us about developments for the new Global Combat Ship (GCS) and if there is a requirement for such an advance vessel in the Asia Pacific?

R. Ives: The UK's Royal Navy Type 26 Global Combat Ship will be a highly capable and versatile multi-mission warship designed to support anti-submarine warfare, air defence and general purpose operations anywhere on the world's oceans and will replace the *Type 23* frigates. The first ships are expected to be in service in the early 2020s.

ADJ Today: Being a slightly "slow" market here in Asia especially in the Southeast Asia, are both Eurofighter Typhoon and Hawk trainers is still continue to be "pushed" especially in Malaysia?

R. Ives: Eurofighter Typhoon is a highly capable and advanced swing-role fighter and there are a number of opportunities around the world, including Malaysia. With an unrivalled pedigree of delivering the pilots of the future for air forces across the globe, Hawk is the world's most successful and proven military aircraft trainer. With recent success in Saudi Arabia and Oman, we believe Hawk is well placed to provide capability to air forces for many years to come.

ADJ Today: Being here in Thailand's Defense & Security exhibition, what is BAE Systems showcasing and what your thoughts on the show?

R. Ives: This year BAE Systems is delighted to be exhibiting as part of the UK Trade & Industry stand, where our focus is on the maritime and land sectors, particularly platforms including OPVs, the 99m Corvette and M777, as well as upgrades of product in service in the region. We look forward to discussing these capabilities with our stakeholders during the show.

CZ P-07—Truly Adaptable Pistol

The CZ P-07 is a polymer compact pistol,
designed primarily as a service weapon

and for appropriate of the CZ P 07 follows.

designed primarily as a service weapon and for concealed carry. The CZ P-07 follows the success of CZ 75 P-07 DUTY, while bringing a number of innovative features. CZ P-07 became the best-selling small arms for 2014 with more than 100,000 pieces sold!

Innovative Materials

The new surface finish of the slide, barrel and some other components markedly increases the resistance of the weapon to mechanical damage as well as to corrosion. The new material of the frame is glass fibre-reinforced polymer, ensuring dimensional stability as well as a resistance to rough handling.

Shooter's Comfort

The exchangeable backstraps enable the weapon to be adaptable to the ergonomics and needs of the user. They are available in three sizes—S, M, L, and are a part of the standard package. The weapon is rounded overall, with all sharp edges removed. The front serrations on the slide are added for better gun handling. Also the trigger and

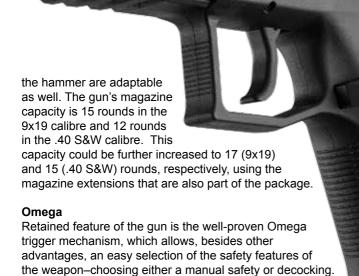
INTE IN COCCH DEPOSITE

Accessories

- Tritium sights, optical fibre sights.
- Textile and polymer holsters, suitable for service and concealed carry.
- Tactical lights and laser aiming modules compatible to the MIL-STD 1913 (as allowed by the legislation) Simunition adapters for the CQT and FX ammunition (as allowed by the legislation).
- Suppressors (as allowed by the legislation).

Basic Selling Points

- Extremely resistant against mechanical damage and adverse conditions.
- Mechanically and thermally very stable glass fibre-reinforced polymer.
- Tenifer coating on the slide, barrel and other metal parts.
- Improved overall ergonomics, no sharp edges.
- Excellent shooting comfort and stability.
- Front cocking serrations.
- Interchangeable backstraps.
- Best seller for 2014 with more than 100,000 pistols sold.



The safety levers are ambidextrous; also the magazine

is factory-zeroed to 15 metres, the test target sheet is

included in the package.

catch could be handed as preferred. Every single weapon

BRAHMOS: The Ultimate Force Multiplier

As one of the proud possessions of the Indian Defence Forces, the BrahMos supersonic cruise missile has charted a highly successful trajectory within a very short span of time. Since its first successful test firing in June 2001, the missile has undergone a total of 48 flight tests from ground-based, naval surface and submerged platforms in both vertical and inclined configurations and maintained a distinct track record of highest rates of success.

Rightfully reckoned as the "magical first strike weapon" of India, the tactical missile, with its supersonic speed of Mach 2.8 for a distance of 290km, lethal power and high precision, has added a fresh power-punch to act as a force multiplier in conflict situations.

The universal missile has been successfully tested in sea-to-land, sea-to-sea, land-to-land, land-to-sea and sea-to-land configurations, even as it is preparing to be test-flown for the first time in air-to-ground configuration from the Indian Air Force's Su-30MKI strike fighter.

The programme, initiated in the year 1998 as a joint venture project between India and Russia, has carved a niche for itself by becoming the world's best tactical strike weapon system with the versatility to be launched from multiple platforms for multi-role missions. Today, BrahMos has truly become a synonym of "Innovation, Achievement & Success." The system will also be exported to few friendly countries of India and Russia.

Chaiseri Metal and Rubber Co Ltd for Defence Parts

Chaiseri is one of Thailand's top land defence system companies, which was established in 1969. The company has intensive experience in development/manufacturing/ MRO service in armour vehicle, track shoe, runflat system and rubber to metal bonded part in defence application. The company has business in four segments:



- 1. Upgrade and recondition military vehicle
- 2. Design/Manufacture Track Shoe, Wheel, Sprocket for Tracked Vehicle.
- 3. Design/Manufacture Runflat System with 150km qualification according to Finabel Standard.
- 4. Design/Manufacture Military vehicle e.g. First Win 4x4 vehicle family.

Chaiseri's products have been in service with the Royal Thai Armed Forces, Thai government agencies and international armed forces including 37 countries around the globe.

DSME-Ignition of the New RTN Frigate

South Korean shipbuilder Daewoo Shipbuilding and Marine Engineering (DSME) held the steel cutting ceremony of a 3,700-ton *DW 3000F* frigate for Royal Thai Navy at Okpo shipyard on Aug 31, 2015.

In 2013, DSME inked a contract with Thailand for the building of the frigate. The vessel will be delivered in 2018. With cutting edge stealthy design, *DW 3000F* is powered by CODAG propulsion and can navigate on the sea at a speed of 18knots for 4,000nm range. It deals with multiple targets with two surveillance radars backed by SSM, SAM, torpedo, and guns.

When commissioned in 2018, the frigate will be a part of RTN flotilla and perform multiple functions from defending regional realm to protecting Thai maritime economic interests. It is also expected that she will open new horizon of interoperability for joint exercises with allies of Thailand.

They have production facilities located in the US, UAE and Turkey.

IAI

Israeli government-owned company, IAI (Israel Aerospace Industries), is a globally recognised leader in the development and production of commercial and military aerospace and defence systems. IAI provides the world with unique, top of the line solutions for a broad spectrum of needs in the fields of space, air, land, sea, cyber and homeland security. IAI is active in both the defence and commercial aviation markets.

IAI primarily focuses its activities on: space, unmanned aerial systems (UAS), military aircraft and helicopter upgrades, intelligence surveillance, reconnaissance systems (ISR), theatre defence, naval systems, homeland security, ground systems, cyber and robotics.

IAI has 35 years of experience in the field of space technology. As Israel's main contractor for that area. IAI focuses on: cost-effective small to medium size satellites such as communication satellites (the AMOS family), ground control stations (including on-demand services), mission and applications centres, the Mini-LEO satellites with different payloads onboard including EO payloads on the OptSat/Ofeq families as well as the EROS commercial constellation, SAR on the TecSAR family and research/scientific satellites, such as Venus and Shalom), and a full range of space sub-systems. IAI also offers the Shavit launcher, enabling the launching of



IAG

International Armored Group (IAG) is a manufacturer of customised and premium armoured vehicles with over 20 years of experience. They have grown substantially over the years and considered as one of the most technologically advanced armoured vehicle producers in the world. The American company is an internationally recognised organisation, having received ISO 9001:2008, ISO 9606-1 and ISO 15614-1, American Welding Society and VPAM-BRV2009 VR7 certifications.

mid-size satellites to LEO orbits.

IAI works with its customers to enable efficient solutions in line with their budgetary constraints. As a large company active in the development and production of systems for defence and commercial markets, IAI owns thousands of products and solutions in the fields of space, air, land, sea and cyber. Those capabilities and technologies are available to all of its product lines in the aforementioned fields, to provide the optimal solutions for all its customers.

Katakura Industries Co Ltd

Since its establishment in 1873, what is now Katakura Industries Co Ltd has become widely known to Japanese society through silk and made major contributions to the country's modern industrial development.

In response to changing times and society's wide-ranging needs, Katakura have expanded into a multifaceted business by making effective use of the tangible and intangible management resources accumulated when it was simply "Katakura Silk." Today, the company actively conduct operations underpinned by four business "pillars": textiles, pharmaceuticals, machinery and real estate.

Having adopted "Proposing Comfortable Life Scenes for Lifestyle Affluence" as their corporate slogan, they focus on their customers' "lives" and wish to continue to contribute to communities and society as a whole by supporting daily lives from a variety of angles. Now as the Katakura Group cherishing the traditions cultivated in the "spirit of enterprise," the Japanese-based company will continue to make diligent efforts to provide products and services that meet customers' expectations in the years ahead.

Introduction of "NEC RO2"

In the event of disaster or defence missions, safe drinking water supply should be taken as the first priority. NEC RO2 (NWPS 70S) is the best system which provide purified water to help the life of victims of disaster or soldiers on the move. NEC RO2 makes the person easier to access safe drinking water in anywhere of the world. The system has three beneficial points, which contribute to its special characteristics.

Free Water Source. This system produces safe drinking water from any water source, from rivers, lakes, marshes and not only from fresh water, but also seawater. The amount of water purification capability is 3,500L/h from fresh water, and 1,500L/h from seawater.

Mobility. The system is small and light weight, designed to be mounted on a truck. Furthermore, the system is designed to be separated to three units and transportable by helicopter.

Easy Operation. The system has full-automated operation system, equipped by a simple control panel.

This is based on their biggest customer's concern. After setting up the system, nothing needs to be done at all. The system supplies purified water continuously without any interruption. So, NEC RO2 has flexible capability to make easier access to safe drinking water in any part of the world, which contributes to defence or disaster relief missions.

Otokar

Otokar, the largest national and privately owned company of Turkish defence industry presents models of its wheeled armoured vehicles, Cobra 4x4, Arma 8x8 and tracked armoured vehicle Tulpar.

Being the main land systems supplier of the Turkish Armed Forces, Otokar's over 28,000 military vehicles are operational in around 30 countries with nearly 50 different users. Operating under many different geographical and extreme climate conditions, Otokar vehicles' capabilities are proven in real combat situations.

Apart from being listed as a manufacturer for NATO and UN forces, Otokar is also the main supplier of the Turkish Military and Security Forces for wheeled tactical vehicles. Otokar has a vast range of military vehicles from light to heavy tonnage in both wheeled and tracked, including producing its own design turret systems ranging from 7.62mm to 30mm. The company was awarded prime contractor of Altay Turkey's Main Battle Tank Project by the Turkish Ministry of Defence.

Otokar is considered as one of the most sophisticated land defence plants world-wide. Its capability of design, testing, development, and production under one single umbrella greatly differentiates Otokar from its rivals.

Rheinmetall Defence Presents Skyguard 3 Air Defence System

Rheinmetall is one of the most trusted names in the international defence technology industry. With some 10,000 employees, production plants and sales units in 20 countries, Rheinmetall Defence generates global sales of over \$2.2 billion per year.

At this year's Defense & Security, Rhe-



inmetall is represented by its Air Defence and Naval Systems business unit, one of the world's leading manufacturers of state-of-the-art antiaircraft systems. In the domain of cannon-based air defence technology, the company is the global leader and the sole single-source supplier of fire control systems, automatic cannon, integrated missile launchers and Ahead ammunition.

Around the globe, the armed forces of more than 40 nations have come to rely on Rheinmetall's multifaceted, automated and highly effective air defence solutions. Among the company's best-known products are its widely promoted Skyguard air defence system, which will soon be fielded in Thailand, the Skyshield generation with its pioneering revolver guns, and the highly mobile Skyranger family, which is capable of engaging both air and ground targets.

The Oerlikon Skyguard 3 Air Defence System is the third generation of the legendary Skyguard Air Defence product line. With its two 35mm Oerlikon Twin Gun GDF007, it is optimised for inner tier and vital asset protection. Thanks to the company's Ahead air burst ammunition technology, it can take out even the smallest targets.



continued from page 10

The close cooperation between the ASEAN ministries of defence is very important in building confidence and trust amongst ASEAN member states. It is a vital foundation and factor that support economic development, trade, investment, social and cultural exchanges in the region, which are significant in bringing sustainable security, safety, and well-being to the people of ASEAN.

As we are now preparing for the realisation of the ASEAN Economic Community (AEC) under the ASEAN Political Security Community (APSC) pillar, the Ministry of Defence gives special emphasis to the roles and mechanisms established by the ASEAN Defence Ministers' Meeting (ADMM) and ASEAN Defence Ministers' Meeting-Plus (ADMM-Plus).

The activities allow ASEAN senior military leaders the opportunities to meet, discuss and exchange opinions in order to familiarise themselves with each other and understand respective standpoints and perspectives on security and military issues of each country. "Through these interactions, senior military leaders are able to determine policies and guidelines to establish potentials of the armed forces and the security of the region. Examples include the creation of a "hotline" linking

all the ASEAN ministers of defence together in order to prevent and resolve any dispute on security matters, the establishment of the ASEAN Peacekeeping Centre Network, and the Officer Exchange Programme for enhancing relations for military personnel at the operating level," Gen Prawit said.

Joint Exercises

In the area of joint military training, there are no concept documents written on joint or combined exercises of ASEAN Armed Forces under the ADMM and ADMM-Plus frameworks. However, Gen Prawit said that in the past, there has been collaboration in the field of humanitarian assistance and disaster relief (HADR) such as training personnel of ASEAN member states on HADR or conducting the ASEAN Militaries' Humanitarian Assistance and Disaster Relief Exercise (AHX). As for other types of training, they are in the form of bilateral or multilateral training which by agreement can be conducted between each member state or with all ASEAN member states. Therefore, in the future we may see developments in joint or combined exercises of mutual interest amongst all ASEAN member states and dialogue partners

The Ministries of Defence of Thailand and Russia, the co-chair of ASEAN De-

fence Ministers' Meeting-Plus Experts' Working Group on Military Medicine (ADMM-Plus EWG on MM) and the Ministries of Defence of Laos and Japan, the co-chair of ASEAN Defence Ministers' Meeting-Plus Experts' Working Group on Humanitarian Assistance and Disaster Relief (ADMM-Plus EWG on HADR) will conduct a Field Training Exercise (FTX) on Military Medicine and Humanitarian Assistance and Disaster Relief in September 2016 in Chonburi Province, Thailand. The objectives of the exercise are to test the Standard Operation Procedures (SOPs) of Military Medicine operations in Humanitarian Assistance and Disaster Relief and simultaneously draft the SOPs for Humanitarian Assistance and Disaster Relief of ADMM-Plus EWG on HADR.

Gen Prawit also commented on the possible strengthening of defence industry cooperation within ASEAN. He said presently, member countries within ASEAN that have their own defence production capabilities are Thailand, Malaysia, Indonesia, Singapore, and the Philippines. "These countries continuously exchange their experiences as well as plan and establish measures, both in the short and long terms to develop cooperation amongst one another to produce tangible results in the near future."

Malaysian Armed Forces Orders ForceSHIELD from Thales

Thales also signed a contract with Global Komited, a company within The Weststar Group, to supply the Malaysian Armed Forces with ForceSHIELD, the Thales integrated Advanced Air Defence system recently.

In addition to the STARStreak missiles, the system comprises CONTROLMaster 200 radar and weapon coordination systems, RAPIDRanger and RAPIDRover mobile weapon systems and the Next Generation Lightweight Multiple Launcher, as well as associated communications.

The STARStreak missiles and launcher systems are manufactured in Thales's facility in Belfast and the CONTROLMaster by Thales in France. This significant purchase by the Malaysian Armed Forces will increase jobs in Belfast and develop high value added jobs and skills set in Malaysia through a programme of technology transfer.

The purchase of ForceSHIELD will enable the Malaysian Armed Forces to replace and enhance the previously commissioned Thales STARBurst missile system, which has been in service since the mid 1990s.



Malaysian Defence Minister Hishammuddin Hussein (left) and Philip Dunne (right), UK Minister of State for Defence Procurement signed a contract for ForceSHIELD recently.

The STARStreak missile utilises the proven principle of "high velocity" to defeat threats with short unmasking times. The three-dart configuration maximises lethality and the highly accurate laser beam riding guidance enables engagement of small signature targets.

Victor Chavez, CEO of Thales UK, said:

"I am delighted that another country has decided to buy ForceSHIELD. This latest-generation sensors to effectors solution will give Malaysia a world class, cutting edge capability. Increasing our export sales is a key part of Thales' growth strategy and today's news marks another milestone."



at Booth Q13



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Saab has teamed up with the Swedish Government and local Thai company AVIA Satcom to bring world-leading products, services and solutions to Thailand.

Our products and solutions work in seamless partnership with one another to provide true network-centric defence capabilities.

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รวมพลัง ทางเทคโนโลยี

Saab ร่วมมือกับรัฐบาลสวีเคนและ Avia Satcom บริษัทในประเทศ ใทยเพื่อนำผลิตภัณฑ์ บริการ และโซลูชันชั้นนำของโลกมาสู่ประเทศไทย

ผลิตภัณฑ์และ โซลูชันของเราทำงานได้อย่างราบรื่นภายใต้ความร่วมมือซึ่งกันและ กันเพื่อนำเสนอความสามารถในการปกป้องคูแลประเทศซึ่งมีศูนย์กลางอยู่ที่เครือ ข่ายอย่างแท้จริง

🕑 เยี่ยมชมเราได้ที่ HALL 8, E1-E8, F1-F8

