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United Kingdom: Defence Industry, Overall Statistics



UK defence and security industries are an important part of the nation’s advanced manufacturing base and among the most advanced globally. It is indicative that UK Defence Sector is the largest exporter of defence equipment and services in Europe and the second globally after US. UK defence sector generated exports of GBP 9.8bn (USD 15.3bn), last year, contributing GBP 7.3bn (USD 11.4bn) Gross

Added Value to the UK economy. Additionally, the sector employs 162,400 people directly – and 114,200 indirectly.

Dutch arms exports are rather diversified in their geographical structure. In 2013, 67% of UK Defence exports were channeled to markets in the Middle East, 12% of exports were to North America, 12% to Europe and 9% to Asia-Pacific. The diversification of the geographical distribution of exported equipment is not however evenly distributed among the three types of armed forces. It is indicative that 83% of UK Defence export revenue for the period 2004-2013 generated through Aerospace sector; 10% from Land and 7% from Maritime.

UK Defence Industry turnover, £bn



Source: CEBR & ADS

UK Defence firms plan to invest in R&D within the next year. It is indicative that 74% of companies stated that they plan to increase investment levels over the next 12 months – primarily in production and innovation capacity. Additionally, it is worth mentioning that

more than 50% of UK Defence Sector workforce is involved in R&D, engineering and production & assembly.

UK defence sector should continue to grow, so as to be in a position to fulfil its outmost mission, to efficiently equip the country's armed forces. Furthermore, a healthy defence and security industry will potentially bring further economic benefits, in terms of providing jobs, maintaining skills and strengthening exports as the companies involved in the defence and security already sell significant volumes of goods and services overseas.

Kyriazis Vasileios

Epicos Newsletter Head Editor

United Kingdom: A400M Atlas Next-Generation Military Transport Aircraft, Officially Unveiled



The first of UK's A400M Atlas next-generation military transport aircraft has been officially unveiled last week by the MOD at its new home at RAF Brize Norton. Prime Minister, Mr. David Cameron stated that: "the arrival of the A400M Atlas will greatly add to our defence capabilities – increasing our ability to move troops and deliver military equipment, aid and medical supplies anywhere in the world quickly and effectively. It will be a huge contributor to future air mobility in the RAF and is a further example of this Government's continued investment in the equipment our armed forces need, which is only possible thanks to difficult decisions taken elsewhere as part of our long term economic plan".

Whereas, Defence Minister, Mr. Philip Dunne stated that: "The programme has been at the forefront of modern technology, with its software, wings and aircrew simulator British-manufactured, creating or securing work for around 8,000 people in the UK".

The A400M has a cargo capacity of 32 tonnes and it is capable of supporting a wide range of operational scenarios. The A400M offers global reach at high speed, whilst still retaining the capability of landing at austere airfields.

The A400M was launched in 2003 to respond to the combined needs of seven European Nations regrouped within OCCAR (Belgium, France, Germany, Luxemburg, Spain, Turkey and the UK), with Malaysia joining in 2005. This is one of the major reasons for its extreme versatility. Its maiden flight took place on 11th December 2009.

The UK is the third country to operate the aircraft, after France and Turkey and the £2.8 billion programme will see a total of 22 aircraft delivered to the RAF in the coming years. The aircraft will eventually replace the existing fleet of C-130 Hercules.

Kyriazis Vasileios

Epicos Newsletter Head Editor



Epicos "Industrial Cooperation and Offset Projects"



Epicos "Industrial Cooperation and Offset Projects" provides a unique set of online tools enabling the structure, identification and implementation of comprehensive Offsets programs, through a searchable database. By introducing different offset projects and ideas proposed by local A&D industry it ensures the optimum cost for Prime Contractors and reassures that the priorities of local industry are fully met...

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Development of SHORAD system radar (sub) components



A company specializing in the repair and technical inspection of fire control systems, radars, electronic and mechanical units of different missile systems, the designing and manufacturing of mechanical/electronic units, hardware and software for military solutions and security engineering systems, is proposing, in the frame of an offset program, collaboration with a prime contractor, or a third party specializing in 3D Radar Development, in order to receive technology on the development of radar system components to be used in Medium and Short Range Air

Defense (SHORAD) missile systems.

[For Further Information Contact our ICO Department](#)

Mail at: g-menexis@epicos.com

New generation of Tactical Vests for Military, Police and Law Enforcement applications, able to stop 7.62x39 rounds, without additional ballistic protection plates



A leading company in the development and manufacturing of personal protective equipment, including tactical vests, concealed ballistic vests, riot control equipment and related training equipment, is proposing the development and production of a new generation of personal ballistic protection systems, able to stop 7.62 x 39 rounds, without inserting additional ballistic protection plates, thus reducing the overall vest weight.

[For Further Information Contact our ICO Department](#)

Mail at: g-menexis@epicos.com

News from our A&D Business Network**IAI Will Present Its Next Generation of EHUD- Live Autonomous Training System at I/ITSEC
- Delivery of the 1000th EHUD AACMI Pod will be marked during the conference**

Israel Aerospace Industries (IAI) will present its advanced live autonomous training systems at this year's Interservice/Industry Training, Simulation and Education Conference (I/ITSEC), December 1-4 in Orlando, Florida (Booth #1219).

IAI will feature the unique capabilities of the EHUD AACMI (Autonomous Air Combat Maneuvering Instrumentation Training System) family based program derivatives, including a Helicopter Training and Safety System (HTS), a Naval Combat Maneuvering Instrumentation (NCMI) System, and an Air Defense Training System (ADTS).

The 5th generation EHUD AACMI pod which offers a new set of features using advanced and modern technologies such as new data link (DL) communications, improved security, encryption, and embedded simulations will be on display. The system is a technology enabler for LVC (Live Virtual Constructive) training and provides a significant leap in the performance of modern joint training capabilities for air, ground and naval forces. The use of on-board systems enhances the effectiveness of live training, reduces expenses and helps increase familiarity with the systems to the operators.

IAI recently delivered its 1000th EHUD system to the Italian Air Force. This is a major milestone for IAI, representing continued success and a high degree of customers' satisfaction.

Yoav Tourgeman, IAI/MLM Division's General Manager said: "The next generation of EHUD is technologically the world's leading AACMI system, which provides an answer to the evolving training standards and requirements of modern air forces. Delivering the 1000th EHUD system to our customer marks the unprecedented importance of this advanced product, more than 20 years since its initial introduction."

For further information, please contact:

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Or [Click Here](#)

Emirates-CAE Flight Training and flydubai announce type-rating training programme



Emirates-CAE Flight Training (ECFT) announced a long-term pilot training agreement with flydubai, a Dubai-based carrier. This arrangement will provide instruction on the Boeing 737-800 aircraft to those interested in having an opportunity to fly for flydubai. The programme is offered to commercial pilots who have less than 1,500 flying hours. The programme is currently underway at the Emirates-CAE Flight Training (ECFT) and Dubai Silicon Oasis (DSO) centres.

As the aviation industry in the Middle East continues to grow, training facilities for pilots to gain additional experience and skills are essential. This programme demonstrates the commitment of ECFT and flydubai to ensuring pilots are offered world-class training opportunities.

The ECFT type-rating programme represents an opportunity for low-hour commercial pilots to accumulate the required number of flying hours and become type rated. Upon successful completion of the programme, pilots will be able to apply for any potential vacancies at flydubai and may then be invited to undergo a comprehensive evaluation and interview process.

"flydubai pilots have trained solely with ECFT since the airline's beginning. The trademark of ECFT's training is defined by high-quality," said Kenneth Gile, Chief Operating Officer at flydubai. "With our focus on safety and passenger confidence, we seek to hire the best talent in the industry and have chosen ECFT as a trusted partner to help us find qualified pilots to join our team of passionate and dedicated people."

"Identifying and training qualified pilot candidates for growing airlines such as flydubai is an important element of the portfolio of products and services CAE offers to airlines," said Walter Visser, Managing Director of Emirates-CAE Flight Training. "Our mission is to be the training partner of choice for our customers and this programme is another example of how we work with our customers to cater to their specific training needs. Our instructional programmes use innovative methodologies and best-in-class instructors to ensure the safety and efficiency of our customer operations."

Pilots interested in the training programme can visit <https://pilot.cae.com/Programs/FlyDubai.aspx> to register for the training programme. Pilots should be between 20 and 30 years old, hold a valid 1st Class Medical and have a commercial pilot license (CPL/IR Multi Engine with MCC or Frozen ATPL with a good educational background specifically in English, physics and mathematics) with a minimum of

220 flying hours. To obtain detailed information about the programme's entry requirements, visit the website mentioned above. This website is the only method to apply for this programme and any subsequent job opportunities at flydubai.

About Emirates-CAE Flight Training (ECFT)

ECFT is jointly operated by Emirates, one of the world's fastest-growing airlines and CAE, a global leader in modelling, simulation and training for civil aviation and defence. The original facility, housed in a training centre adjacent to the Emirates Aviation College in Garhoud, Dubai, was the first training centre of its kind in the Middle East to be approved by the European Aviation Safety Agency (EASA), the US Federal Aviation Administration (FAA) and UAE General Civil Aviation Authority (GCAA). A second facility, located in the Dubai Silicon Oasis (DSO), was inaugurated in May 2013.

ECFT services over 200 aviation clients and trains more than 10,000 pilots and technicians a year on a range of Airbus, Bell Helicopter, Boeing, Bombardier, Dassault, Gulfstream and Hawker Beechcraft aircraft types. Commercial airlines, business aircraft and helicopter operators also train their crews and maintenance staff at ECFT. In addition, management works in close collaboration with more than 20 different National Aviation Authorities to ensure that their specific requirements are also fulfilled.

About CAE

CAE is a global leader in providing comprehensive training solutions based on world-leading simulation technology and integrated training services. The company employs 8,000 people at more than 160 sites and training locations in 35 countries. Our vision is to be our customers' Partner of Choice and we take a long-term approach to customer relationships. We offer our civil aviation and defense and security customers a complete range of highly innovative product, service and training center solutions designed to help them meet their mission critical needs for safety, efficiency and readiness. We provide similar solutions to customers in healthcare and mining. CAE has the largest installed base of civil and military flight simulators, supported by a range of after-sales services, and has been serving the needs of its customers for nearly 70 years. We have the broadest training services network in the world and offer civil aviation, military and helicopter training services in 67 locations worldwide and train more than 120,000 civil and military crewmembers annually. www.cae.com

Follow on Twitter @CAE_Inc

About flydubai

Dubai-based flydubai strives to remove barriers to travel and enhance connectivity between different cultures across its ever-expanding network. Since launching its operations in 2009, flydubai has:

- ✓ Created a network of more than 86 destinations, with 23 new routes announced so far in 2014.
- ✓ Opened up 54 new routes that did not previously have direct air links to Dubai or were not served by a UAE national carrier from Dubai.

- ✓ Built up a fleet of over 40 new aircraft and will take delivery of more than 100 aircraft by the end of 2023.

In addition, flydubai's agility and flexibility as a young airline has enhanced Dubai's economic development, in line with the Government of Dubai's vision, by creating trade and tourism flows in previously underserved markets.

For more information about flydubai services, please visit www.flydubai.com.

**China, Australia agree to boost defence ties**

Beijing and Canberra have agreed to enhance military ties, Chinese state media reported, lauding defence relations between them even as Australia strengthens cooperation with the United States and Japan.

The move follows President Xi Jinping's visit to Australia last month, when they agreed to raise their ties to a "comprehensive strategic partnership" and sealed a free trade accord, the official Xinhua news agency reported late Tuesday.

Improving military relations illustrated "a new high of mutual political trust between our countries", it quoted Fan Changlong, vice chairman of China's Central Military Commission, as saying.

"Military ties forge an important part of bilateral ties," he added.

Fan held talks with Mark Binskin, the head of Australia's military, and defence secretary Dennis Richardson, who were in China for an annual strategic dialogue.

Australia, a long-time defence ally of the United States, has also stepped up military ties with Japan and has occasionally tussled with China despite their close trade relations.

In July, Australian foreign minister Julie Bishop was quoted as saying that "China doesn't respect weakness" and that Canberra must "hope for the best and manage for the worst" in its relations with Beijing, prompting the ire of Chinese state media.

Bishop received a rare diplomatic dressing down from Chinese Foreign Minister Wang Yi when she visited Beijing in December last year after Canberra criticised China's declaration of an air defence zone in the East China Sea.

Last month, Australian Prime Minister Tony Abbott, US President Barack Obama and Japanese Prime Minister Shinzo Abe said they were committed to deepening their already strong security cooperation in the Asia-Pacific.

Meeting on the sidelines of the G20 summit in Brisbane, they announced enhanced defence cooperation, including trilateral exercises, maritime security capacity building and maritime domain awareness.

They also called for the peaceful resolution of maritime disputes -- with China involved in territorial rows with Japan and several Southeast Asian countries.

Washington and Canberra signed a agreement in August to base 2,500 Marines in the northern Australian city of Darwin as part of the much-vaunted US "rebalance" to Asia. Chinese media expressed irritation when the deployment was first announced in 2011, though criticism has largely muted.

Xinhua did not provide details of the stepped up Chinese-Australian defence ties but said Richardson noted that 45 instances of cooperation or exchange were started in 2014.

The defence agreement follows the free trade accord between the two countries, which abolishes tariffs in the lucrative natural resource and agricultural sectors.

China is Australia's biggest trading partner, with the two-way flow exceeding Aus\$150 billion (US\$126 billion).

Source: 2014 AFP, Agence France-Presse (AFP)

Ashton Carter likely next Pentagon chief

The former number-two ranking official at the Pentagon, Ashton Carter, will likely be named as the next US defense secretary, American media reported Tuesday.

President Barack Obama was poised to nominate Carter -- a physicist turned national security policy wonk -- to replace outgoing Pentagon chief Chuck Hagel, "barring any last minute complications," CNN reported.

CNN cited several unnamed administration officials and The Washington Post also reported Obama would nominate Carter.

The White House declined to confirm or deny the reports but said Carter was on a "short list" of candidates and highlighted his qualifications for the post.

Carter had served "very, very ably" as the former deputy defense secretary and enjoyed bipartisan support in Congress, White House spokesman Josh Earnest told reporters.

As Carter had been confirmed by lawmakers for his previous position by unanimous consent, "this is an indication that he fulfilled some of the criteria that we've discussed in the past," Earnest said.

"He is somebody that does have a detailed understanding of the way that the Department of Defense works," he said.

Pentagon officials acknowledged to AFP that Carter was among the top contenders for the post but could not confirm if a final decision had been taken.

Hagel, the outgoing Pentagon chief, announced his resignation last week. Officials privately said he was forced out after losing the confidence of the White House, as the United States wages an air war against Islamic State jihadists in Iraq and Syria.

-- From professor to weapons czar --

Carter, 60, has gained a reputation as an expert on hi-tech weapons and military budgets, portraying himself as a reformer intent on making the vast Pentagon bureaucracy more efficient.

While Carter is fluent with weapons programs and technological trends, he has less experience overseeing war strategy and has never served in uniform -- unlike his predecessor, Hagel, who was wounded in the Vietnam War.

An academic by training who holds a doctorate in theoretical physics from the University of Oxford, Carter worked in the Pentagon during Bill Clinton's presidency overseeing nuclear arms policies and helped with efforts to remove nuclear weapons from Ukraine and other former Soviet territories.

A former professor at Harvard University's Kennedy School of Government, Carter served as the Pentagon's top weapons buyer from 2009 to 2011 and then as deputy defense secretary until 2013.

When Carter stepped down last year, officials denied reports that he had clashed with Hagel.

Although he has served under two Democratic presidents, Carter is not a heavily partisan figure and the US Senate would likely endorse his nomination, analysts say.

Carter would be a "great" choice, said Democrat Carl Levin, chairman of the Senate Armed Services Committee. "He is very highly qualified."

He added it was possible lawmakers could expedite a nomination for the Pentagon job in the next few weeks before a newly-elected Republican majority takes over the Senate in the new year.

Senator James Inhofe, the current ranking Republican on the Armed Services Committee, said if Carter was chosen he "should have a very easy path" to confirmation by lawmakers.

Source: 2014 AFP, Agence France-Presse (AFP)

India, France say will press ahead with Rafale deal

The French and Indian defence ministers agreed to press ahead with negotiations on the sale of 126 Rafale fighter jets to India, both sides said Tuesday, after slow progress cast doubt on the estimated \$12 billion deal.

Successive deadlines to complete one of the world's biggest airline contracts have slipped by, leading to reports that Britain's Eurofighter could try to re-enter the race.

French Defence Minister Jean-Yves Le Drian said negotiations were "proceeding well" after he met his newly appointed Indian counterpart Manohar Parrikar in New Delhi on Monday.

"For a project of this scale and such complexity... the pace is comparable to that of other negotiations," he said in an interview with Indian daily The Pioneer Tuesday.

"Both our governments share the will to conclude it (Rafale deal) and this is, of course, essential."

The pair discussed "all issues including Rafale", an Indian defence ministry spokesman told AFP.

"It was decided that whatever differences still existed would be resolved in a fast-track manner."

French company Dassault Aviation won the right in 2012 to enter exclusive negotiations with India to supply 126 fighters after lodging a lower bid than rival firm Eurofighter.

The deal would see Dassault supply 18 Rafales -- twin-engine multi-role fighters -- by 2015.

India, the world's top weapons importer, is in the midst of a \$100-billion defence upgrade programme and experts say it urgently needs the jet fighters to maintain a combat edge over nuclear rival Pakistan.

The remaining 108 would be made by state-run Hindustan Aeronautics Ltd under technology transfer agreements with India, which is keen to boost homemade defence manufacturing.

Source: 2014 AFP, Agence France-Presse (AFP)

First Thales Avant in Asia Flies on Newest JAL B787

Thales announces that Japan Airlines' new B787-8, which entered into revenue service on December 1, is equipped with the latest generation, Android based AVANT in-flight entertainment system. Japan Airlines (JAL) becomes the first carrier in Asia to fly Thales's AVANT system on a B787 aircraft.

AVANT is a popular system on newest generation aircraft and has been selected by 15 worldwide airlines. Today, more than 120 aircraft are flying with AVANT with at least one aircraft delivery nearly every week. Total orders are approaching 500 aircraft.

The JAL Sky Suite passenger experience on the B787 includes a wide selection of on-demand entertainment, 3D Maps, JAL Shop, and Sky Manga; a world first for the cabin experience. Sky Manga is a service that allows passengers to enjoy digital manga on the Thales system. Available in all classes on international routes, passengers will have access to 90 Japanese and 30 English titles.

Business class passengers will enjoy their personal entertainment on 23" high definition displays and on the award winning Touch Passenger Media Unit. This unique unit, which resembles a smartphone, can be used as a control device or second screen, bringing more interactivity and newer Android applications to passengers than ever before.

Passengers in premium economy and economy seats will access their entertainment through large 12 and 10 inch displays offering a generous viewing experience. At every seat, passengers will find AC power and USB port accommodations for their mobile devices.

Japan Airlines have 15 line-fit B787 aircraft on order, all featuring AVANT. The airline and Thales have developed a close partnership over the years. In addition to the B787, Thales systems are flying on Japan Airlines' B767 and B777 aircraft, on both domestic and international routes.

"Our relationship with Japan Airlines spans many years and we have developed mutual respect and trust for one another. The launch of this new aircraft is a great milestone for all of us and we are confident that the quality, reliability and advanced technology of our systems will help Japan Airlines ensure their passengers continue to be satisfied by this airline's exceptional level of service," said Dominique Giannoni, Thales vice president and CEO of In-flight Entertainment and Connectivity activities

“We are delighted to work with a reliable brand like Thales and are confident that the quality of their product would enable us to meet the needs and expectations of our valued customers” said Jun Kato, Executive officer of Route Marketing for Japan Airlines

For Further Information [Click Here](#)

Source: Epicos, Thales

Raytheon awarded contract to provide the State of Qatar with Advanced Integrated Air and Missile Defense (IAMD) Command and Control System

The U.S. Air Force awarded Raytheon Company (NYSE: RTN) an undefinitized contract action (UCA) for a Foreign Military Sales contract not to exceed \$75.6 million to design and implement an Air and Missile Defense Operation Center (ADOC) for the State of Qatar, which will be a first of its kind in the region. The acquisition is part of an Armed Forces Modernization and recapitalization effort announced by Qatar in March of this year and announced by the Department of Defense on November 26th, 2014.

The ADOC will provide Qatar with an advanced IAMD capability including integration of U.S. air defense systems, such as Patriot, the Early Warning Radar and THAAD, with European air defense systems and radars. The ADOC will also integrate with Qatar's Raytheon-made Air Operations Center (AOC).

"This contract reinforces the depth of our systems integration capability and expertise in integrated air and missile defense," said Raytheon's Dave Gulla, vice president of Integrated Defense Systems' Global Integrated Sensors business area. "The ADOC will have the latest command and control, cyber, and information assurance capability in partnership with the Air Force to enhance regional security and meet the State of Qatar's requirements."

About Raytheon

Raytheon Company, with 2013 sales of \$24 billion and 63,000 employees worldwide, is a technology and innovation leader specializing in defense, security and civil markets throughout the world. With a history of innovation spanning 92 years, Raytheon provides state-of-the-art electronics, mission systems integration and other capabilities in the areas of sensing; effects; and command, control, communications and intelligence systems, as well as cyber security and a broad range of mission support services. Raytheon is headquartered

in Waltham, Mass. For more about Raytheon, visit us at www.raytheon.com and follow us on Twitter @Raytheon.

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Source: Epicos, Raytheon Company