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**Part I: NIDV International Participation Day**



**Part II: Epicos Newsroom**

## *The NIDV Foundation*

The NIDV Foundation facilitates the sustainable positioning of the Dutch Defence and Security-related Industry (NL-DVI) in national and international orders (from the government and elsewhere) and in national and international supplier chains. The NL-DVI is synonymous with the highest possible quality and effectiveness of equipment, services and application-oriented knowledge. The NIDV is a strategic partner of the government in the area of defence and security and a key figure in the triple helix collaboration between the government, knowledge institutes and the business community. More

## *Interview with Mr. R.H. (Rob) van Dort, Business Development Manager, NIDV Foundation*


Mr. R.H. (Rob) van Dort, Business Development Manager, NIDV Foundation, gave an exclusive interview to Epicos, regarding the NIDV's annual International Participation Day. Among others, he stated that: "A typical international IP participant is looking for business opportunities and cooperation with companies in the Netherlands, related to or without offset obligations. Dutch companies want to promote their capabilities to e.g. OEM's".

- On April 20th 2016, the NIDV is organizing its annual International Participation Day near Amsterdam-Schiphol. Would you like to tell us more about this event?

This event has grown during the last 8 years towards a B to B event with approx. 30 to 35 international OEM's and about 65 Dutch companies meeting each other and meeting Dutch government officials responsible for Offset policy and contracts. After a plenary meeting the afternoon will be used for 'speed dating' between representatives of foreign and Dutch companies.

- Can you please describe the profile of the NIDV's International Participation Day participant?

A typical international IP participant is looking for business opportunities and cooperation with companies in the Netherlands, related to or without offset obligations. Dutch companies want to promote their capabilities to e.g. OEM's.

- What are the main benefits a company may find by participating in the NIDV's International Participation Day?

During the NIDV International Participation Day companies have the possibility to meet during one day a large number of interesting companies and be able to organize their appointments at home using the NIDV Cloud matchmaking tool.

- How many companies do you expect to participate in this years' event?

Approx. 35 international OEM's and approx. 65 Dutch companies.

- In order to organise the meetings between OEMs and Dutch companies the NIDV will be using a new Pitch & Match software tool. Can you please tell us what advantages this tool will offer?

The advantages of our Pitch and Match tool are that all matchmaking meetings can be scheduled by the participants using NIDV's web tool in the weeks before the event. They will exchange info about what they have to offer and what they are looking for with participants they want to meet. This year we will start with a new matchmaking tool which will even better and easier assist participants with arranging their meetings.

- This is the 8th International Participation Day organized by the NIDV. Do you believe that the previous ones were successful?

Yes, the previous events were successful. We have seen a growing number of participants and received many positive remarks in the past.

- Any further information you would like to add?

During the NIDV IP event we will give more detailed information regarding the 28th annual NIDV symposium and tradeshow on November 17th 2016.

## *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 a tethered aerostat system for surveillance and reconnaissance purposes

A company with core competencies in Intelligence Surveillance & Reconnaissance (ISR), offering related consultancy services and training programs, wants to extend its business line with the development of a tethered aerostat system for reconnaissance and surveillance purposes. The company is seeking potential partners for the development, enhancement and/or marketing of the system.

For Further Information Contact our ICO Department

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### Development of structural composite parts using overbraiding technology for vehicles' ballistic protection

A company, which is a dedicated manufacturer of braided and woven fibres for composite reinforcement and advanced composites applications, is interested in developing structural composite parts for vehicles' ballistic protection. The company is an expert in the overbraiding manufacturing process, which is particularly well suited for circumferential products, like tubes or beams, and offers a number of advantages in comparison with filament winding, such as better crash properties and the possibility to produce more complex shapes. Furthermore, the company is highly experienced in the use of Aramid fibres, which increase the energy absorption capacity, as well as the damage tolerance of the components. Combining this knowledge and experience, the company is looking for a partner to develop structural composite parts for vehicle protection purposes, using its overbraiding production technology.

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## *News from our A&D Business Network*

### Boeing, Pegasus Airlines Announce Order for Five Next-Generation 737-800s


Boeing and Turkey's leading low-cost carrier Pegasus Airlines, have finalized an order for five Next-Generation 737-800 airplanes, valued at approximately $505 million based on expected list prices at delivery. Pegasus Airlines and its subsidiaries, Air Manas and Izair, operate a fleet of 58 737-800s and a total of 69 aircraft. The carrier is based out of Istanbul Sabiha Gökçen International Airport, operating an extensive network of domestic and regional services.

"The performance of the 737-800 has proven reliability, fantastic operating economics and popularity with our customers," said Mehmet Nane, CEO Pegasus Airlines. "I am pleased that we will be continuing with this long-standing relationship that stretches back 20 years, adding more Boeing airplanes to our fleet."

"The 737-800 continues to be the best selling version of the very successful Next-Generation 737 family, accumulating over 7,000 orders worldwide," said Monty Oliver, Vice President, European Sales, Boeing Commercial Airplanes. "We are proud that Pegasus has again selected Boeing to meet its fleet requirements."

Pegasus Airlines is a privately owned airline and Turkey's leading low-cost carrier. It launched its first charter flights in 1990 and is owned by ESAS Holding, operating scheduled flights since 2005.

Pegasus Airlines flies a scheduled service to 33 destinations in Turkey and 70 in the rest of the world, bringing its total network to 103 destinations in 41 countries.

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## UK Government extends commitment to Royal Navy's Type 26 programme

The UK Ministry of Defence has awarded BAE Systems a £472 million contract to progress the Type 26 Global Combat Ship programme following the UK Government's commitment in the Strategic Defence and Security Review to buy eight of the advanced anti-submarine warfare ships. The announcement continues the UK Government's investment in Type 26, reflecting its commitment to the UK's strategic warship building industry and the programme to deliver the Royal Navy's next generation warships. Effective from April 2016, the 15 month contract extends the current demonstration phase ensuring continued momentum to further mature the detailed design of the Type 26 ships and to manufacture key equipment for the first three ships.

Defence Secretary Michael Fallon said: "These highly advanced ships will help keep Britain safe and support our shipbuilding industry. Investing in them is part of our plan to increase defence spending so our armed forces have the most modern equipment they need." Geoff Searle, Type 26 Programme Director at BAE Systems, said: "This is a significant investment in the programme and an endorsement of the Government's commitment to sustain this important national capability. The Type 26 programme is progressing well and over the coming months more of our partners in the supply chain will start to manufacture equipment for the first three ships as we continue to progress towards the manufacturing phase.

"We are committed to working with the Ministry of Defence and wider industry to ensure the Royal Navy has the capability it needs to protect national interests, whilst ensuring value for money for UK taxpayers. Through the Type 26 programme, we are transforming the way we design and manufacture warships with innovative new technologies, systems and processes to ensure we continue to deliver the highest quality equipment at the lowest possible cost."

To date, there are 27 companies across the maritime supply chain working with BAE Systems to deliver the Type 26 ships, including seven firms with contracts underway to manufacture key equipment for the first three ships. This includes manufacturing contracts with Babcock for the ships' air weapons handling systems, GE Power Conversion for the electric propulsion motor and drive systems and Rolls-Royce for the gas turbines, the first of which passed its factory acceptance test in January.

Under the extended demonstration phase, BAE Systems expects to award manufacturing contracts to a total of approximately 50 companies, helping to support a vibrant maritime industry. Key equipment to be delivered includes the Combat Management System and the Shared Infrastructure IT system developed by BAE Systems. This innovative hardware solution will allow the crew to access all software, such as navigation, communications and sonar needed to operate a ship's combat systems through a single console.

The Type 26 Global Combat Ship will be a world-class anti-submarine warfare ship and will in time replace the Type 23 frigates. Globally deployable, it will be capable of undertaking a wide range of roles from high intensity warfare to humanitarian assistance, either operating independently or as part of a task group.

For Further Information Click Here

## Orbital ATK's Cygnus Spacecraft Successfully Launched on Fifth Cargo Delivery Mission to International Space Station

Orbital ATK, Inc, a global leader in aerospace and defense technologies, successfully launched its CygnusTM spacecraft aboard a United Launch Alliance (ULA) Atlas V launch vehicle with approximately 7,900 pounds (3,600 kilograms) of cargo and small satellites that will be deployed directly from the spacecraft. The launch marks the beginning of the company's fifth operational cargo resupply mission (OA-6) for NASA, and the first Cygnus to conduct scientific experiments onboard the spacecraft. Cygnus will deliver vital equipment, supplies and experiments to astronauts aboard the International Space Station (ISS) as part of its Commercial Resupply Services-1 (CRS-1) contract with NASA.

Lift-off of the Atlas V rocket took place at 11:05 p.m. (EDT) on March 22 from Cape Canaveral Air Force Station, Florida. Following a 21-minute ascent, the S.S. Rick Husband Cygnus spacecraft was successfully deployed into its intended orbit approximately 144 miles above the Earth, inclined at 51.6 degrees to the equator. Orbital ATK's engineering team confirmed that reliable communications have been established and that the vehicle's solar arrays are fully deployed, providing the necessary electrical power to operate the spacecraft.

"Today's successful launch continues our great progress and momentum under the CRS contract with NASA," said Frank Culbertson, President of Orbital ATK's Space Systems Group. "I applaud the numerous professionals at NASA, ULA and Orbital ATK for their hard work and dedication. While we are still early in this mission, everything is tracking well. We now eagerly await Cygnus' berthing with the ISS and conducting scientific experiments onboard the spacecraft for the first time."

Cygnus will be grappled at approximately 6:00 a.m. (EDT) on Saturday, March 26.
The spacecraft will remain attached to the ISS for approximately two months before departing with roughly 4,400 pounds (2,000 kilograms) of disposable cargo for a safe, destructive reentry into Earth's atmosphere over the Pacific Ocean. Cygnus' large-volume and pressurized disposal cargo capability, a critical service to NASA, is unique among America's commercial cargo providers.

Under the CRS contract with NASA, Orbital ATK will deliver approximately 59,000 pounds (26,800 kilograms) of cargo to the ISS over 10 missions through 2018. For these missions, NASA will manifest a variety of essential items based on ISS program needs, including food, clothing, crew supplies, spare parts, laboratory equipment and scientific experiments.

The OA-6 mission allows Cygnus to demonstrate its unique flexibility as a spacecraft with capability to launch atop multiple launch vehicles and serve as a platform for science experiments. Once it departs the ISS, Cygnus will enter a specific orbit to deploy five CubeSats, utilizing a NanoRacks CubeSat deployer. Taking place onboard Cygnus, the Spacecraft Fire Experiment-I (Saffire-I) will study the behavior of a large fire in microgravity.

The final experiment to take place aboard the S.S. Rick Husband will be the Reentry Breakup Recorder (REBR). The REBR will measure and record Cygnus' breakup as it reenters Earth's atmosphere.

The Cygnus system, which consists of a common service module and a pressurized cargo module (PCM), achieves high reliability by incorporating numerous elements from flight-proven spacecraft technologies. The service module is built and tested at Orbital ATK's Dulles, Virginia manufacturing facility. It uses avionics systems from Orbital ATK's LEOStar™ and GEOStar™ satellite product lines, plus propulsion and power systems from the company's GEOStar communications satellites. The recently extended PCM, which is based on the Multi-Purpose Logistics Module developed by Thales Alenia Space for NASA, enables Cygnus to carry over 50 percent more cargo than the previous version. The enhanced Cygnus also uses Orbital ATK's UltraFlexTM solar arrays, which are the latest in lightweight, space-qualified, electrical power technology. The arrays were manufactured at Orbital ATK's Goleta, California facility.

Orbital ATK's composite structures and retro motors also supported today's launch of the ULA Atlas V rocket. The company manufactured a 10-foot diameter composite heat shield for the launch vehicle, using advanced fiber placement manufacturing techniques at its Iuka, Mississippi facility. The Elkton, Maryland facility contributed eight Orbital ATK retro motors, providing thrust for separation of the spent first stage.
Orbital ATK has two additional CRS missions scheduled in 2016 to support NASA's ISS cargo and payload mission needs. The company's upgraded Antares launch vehicle remains on schedule for a full-power hot-fire test in late spring. Flight operations for Cygnus and Antares will resume mid-year from NASA's Wallops Flight Facility in eastern Virginia. Beginning in 2019, Orbital ATK will continue its support of the ISS and its crew by carrying out a minimum of six initial cargo missions under the recently awarded CRS-2 contract.

About Orbital ATK

Orbital ATK is a global leader in aerospace and defense technologies. The company designs, builds and delivers space, defense and aviation systems for customers around the world, both as a prime contractor and merchant supplier. Its main products include launch vehicles and related propulsion systems; missile products, subsystems and defense electronics; precision weapons, armament systems and ammunition; satellites and associated space components and services; and advanced aerospace structures. Headquartered in Dulles, Virginia, Orbital ATK employs approximately 12,000 people in 18 states across the U.S. and in several international locations. For more information, visit www.orbitalatk.com.

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**Source**: Epicos, Orbital ATK

## Bombardier WAVE High-speed Ka-band Wi-Fi Service for Global 5000 and Global 6000 Aircraft Receives Transport Canada Certification

Bombardier Business Aircraft announced today that its Bombardier WAVE (Wireless Access Virtually Everywhere) ultra-high-speed in-flight connectivity and productivity solution has been awarded a supplemental type certificate (STC) from Transport Canada (TC).

The new system, which allows business aviation passengers to browse the Internet, stream online media and stage a videoconference high above land and water as seamlessly as they would at home or in the office, is now available as an option for new Global 5000 and Global 6000 aircraft customers and will also be offered as an upgrade option on Global aircraft currently in service.

The certification was achieved following extensive flight hours and rigorous tests aboard Bombardier's Global aircraft which showed that Bombardier WAVE, using Honeywell Aerospace's JetWaveTM hardware, would stay connected to Inmarsat's next generation Jet ConneX satellite solution at various altitudes, angles and speeds, through several different types of weather, and over land and water. The certification validates the reliability and capability of Bombardier WAVE to provide passengers with ultra-high-speed broadband access, consistent performance and seamless coverage across the globe.

Global 5000 and Global 6000 business aircraft cabins are specifically designed to provide a highly productive working environment, a key factor in making these aircraft a leading choice for corporations worldwide. Once the aircraft is equipped with this system, customers will be able to use it to enjoy a truly modern office environment anywhere within the coverage network. The service will allow Global aircraft customers to make the most efficient use of their time onboard.

"This is an important milestone, as Bombardier is the first business aircraft manufacturer to make ultra-high-speed Wi-Fi services available inflight globally and the first to offer performance commitments for network availability and speed," said Paul Sislian, Chief Operating Officer, Bombardier Business Aircraft. "The high-quality performance of the system is the result of countless hours of dedicated teamwork between all three companies."

"The certification of Honeywell's JetWave hardware will enable Bombardier business jet operators to access truly global high-speed inflight Wi-Fi that they need to stay productive and entertained," said Kristin Slyker, Vice President, Business and General Aviation, Honeywell Aerospace. "This is a game-changing moment for business aviation as passengers will now be able to consistently stay connected to fast and consistent Wi-Fi even when they are flying over water on long-haul flights."

"Connectivity is the number one cabin service requirement in business aviation and Bombardier WAVE meets passenger expectations for reliable high-speed broadband with global coverage," said Kurt Weidemeyer, Inmarsat Vice President Business Aviation. "Jet

ConneX is a vital component in this solution, powered by our new constellation of Ka-band satellites, and we offer Committed Information Rates for the duration of each flight to ensure customers get what they are paying for, wherever they are in the world."

**About Honeywell Aerospace**

Honeywell Aerospace products and services are found on virtually every commercial, defense and space aircraft, and its turbochargers are used by nearly every automaker and truck manufacturer around the world. The Aerospace business unit develops innovative solutions for more fuel-efficient automobiles and airplanes, more direct and on-time flights, safer flying and runway traffic, along with aircraft engines, cockpit and cabin electronics, wireless connectivity services, logistics, and more. The business delivers safer, faster, and more efficient and comfortable transportation-related experiences worldwide. For more information, visit www.honeywell.com or follow at @Honeywell_Aero and @Honeywell Turbo.

**About Inmarsat**

Inmarsat plc is the leading provider of global mobile satellite communications services. Since 1979, Inmarsat has been providing reliable voice and high-speed data communications to governments, enterprises and other organizations, with a range of services that can be used on land, at sea or in the air. Inmarsat employs around 1,600 staff in more than 60 locations around the world, with a presence in the major ports and centres of commerce on every continent. Inmarsat is listed on the London Stock Exchange (LSE: ISAT.L). For more information, please visit www.inmarsat.com.

The Inmarsat press release newsfeed is on Twitter @InmarsatGlobal.

**About Bombardier**

Bombardier is the world's leading manufacturer of both planes and trains. Looking far ahead while delivering today, Bombardier is evolving mobility worldwide by answering the call for more efficient, sustainable and enjoyable transportation everywhere. Our vehicles, services and, most of all, our employees are what make us a global leader in transportation.

Bombardier is headquartered in Montréal, Canada. The company's shares are traded on the Toronto Stock Exchange (BBD) and additionally the company is listed on the Dow Jones Sustainability North America Index. In the fiscal year ended December 31, 2015, Bombardier posted revenues of $18.2 billion. News and information are available at bombardier.com or on Twitter @Bombardier.

For Further Information Click Here

**Source**: Epicos, Orbital ATK

## France boosts transport security after Brussels bombing

Security measures were reinforced at airports and train stations in Paris and across France following Tuesday's bombings in Brussels, police said.

A full deployment of security officials was underway at all eight terminals of Charles de Gaulle airport and its two railway stations, with reinforced checks on trains arriving from Brussels, an airport source told AFP.

Additional patrols were also dispatched at Orly airport in southern Paris and the southern city of Toulouse.

Security was beefed up at train stations and on public transport in the capital, a police source added.

French President Francois Hollande held a meeting with his prime minister and interior minister to discuss the attacks in Belgium, which have left at least 13 dead and 35 injured.

Security measures were also beefed up at London's Gatwick airport, at Frankfurt airport and airports in the Netherlands.

**Source:** 2016 AFP, Agence France-Presse (AFP)

## RUAG invests CHF 23 million in a surface treatment centre for aviation in Emmen

RUAG is expanding an existing industrial building for the installation of a surface treatment facility at the Emmen industrial park. The new construction has been designed as an extension of the existing Hall 7, which was built in 2001. The investment of around CHF 23 million for the building and equipment will promote Emmen – and thus the region – as a business location. The symbolic ground-breaking ceremony was held today.

The planning application was submitted on 27 November 2015, and preparatory work on the surroundings started in January 2016. On 25 February 2016 the Executive Board gave the green light for implementation of the project. Construction is due to start in April 2016. The hand-over of the new-build to tenants is scheduled for April 2017, with the facility expected to commence full operations in 2018.

Modern surface treatment facility for aviation components. New electroplating, crack testing and paint spray systems will be installed in the north end of Hall 7 to create a state-of-the-art surface treatment centre. Equipped with the latest technology, this centre will be

able to fully treat components up to 7 metres in length. Its size will make the new surface treatment facility the biggest in Switzerland, and one of the biggest in the whole of Europe. Around 85% of all the components produced by RUAG Aerostructures in Emmen will pass through the centre's cascaded processes. RUAG Aerostructures produces structural components for renowned aircraft manufacturers such as Airbus and Bombardier. The surface treatment centre meets the updated REACH requirements which will come into force at the end of 2017.

Dimensions of annex: 21 x 105 m; height 14.5 m
Volume: 32,000 m3
Investment volume: CHF 23 million for building and equipment
Start of construction: April 2016
Building hand-over: April 2017
Full operations: April 2018

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**Source**: Epicos, RUAG

## SAAB Rolls out New Naval Radar in U.S. Market

Defence and security company Saab showcased its Sea Giraffe 1X naval radar for the first time at the Maritime Security East Conference in Norfolk, Virginia (March 21-23). Sea Giraffe 1X offers simultaneous surface and air surveillance capabilities, a growing need in the U.S. maritime security sector. Sea Giraffe 1X is a 3D, active electronically scanned array (AESA) radar. The entire system weighs less than 650 pounds in total, making it suitable for smaller patrol ships. With no forced cooling requirements and a minimal number of line-replaceable units (LRUs), it requires little power or upkeep. All maintenance, including LRU repair, can be performed by low-level trained engineers.

"Sea Giraffe 1X is ideal for the small patrol vessels that are facing a growing role in U.S. national security," said Gene Bojarski, Business Development Manager of Naval Programs with Saab Defense and Security USA's Sensor Systems division. "Traditionally, smaller patrol ships have only used surface surveillance radar – but as unmanned aerial vehicles (UAVs) become more prevalent, these ships must begin to add air surveillance capabilities as well."
To combat the growing UAV threat, Sea Giraffe 1X features Saab's Enhanced Low, Slow and Small (ELSS) surveillance function. This feature allows the radar system to detect and classify small, low-flying, slow-moving air targets – while concurrently conducting its full suite of other air and surface reconnaissance duties. "Sea Giraffe 1X enhances situational awareness for maritime patrol, surface combat and counter-UAV operations," continued Bojarski. "Nothing else on the market offers this range of capabilities in one easy, lightweight package."
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**Source**: Epicos, SAAB