



# Arab Defense Industry Papers News Bulletin

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Dear Reader,

As of today, the ADIP News Bulletin comes in a slightly new format and with a new focus. Since its inception in September 2016, the ADIP News Bulletin readership has grown. Currently, our subscription list counts 227 recipients and many more will read the bulletin through accessing the dedicated website.

Looking at industry-wide benchmarks for e-letters, the ADIP News Bulletin is a success. According to IBM's 2016 Email Marketing Metrics Benchmark Study e-letter campaigns yield an average unique opening rate of around 21% and an average click-to-open rate of 13%. By contrast, the ADIP News Bulletin achieves an average **unique opening rate of close to 37%** and an **average click-to-open rate of around 36%**. I am grateful for these impressive results and thank you for your loyalty and interest in the ADIP News Bulletin.

Delivering quality at this level requires a lot of work. Given the fact that the ADIP News Bulletin is a self-funded pro bono initiative, a compromise is needed. While striving to supply news about the defense industry in Arab nations, capacity constraints require modifications. In the future the ADIP News Bulletin will provide you with very brief headlines, online reference to the source, and short additional comments if needed. I thank you for your understanding and hope that the new bulletin will continue to be of value for your work. As always I look very much forward to suggestions and comments that help improve the quality of the ADIP News Bulletin.

Heiko Borchert

1 August 2017

## The Big Picture

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### Iran

*Jane's Defence Weekly (JDW)*, 13 July 2017. Satellite imagery seems to confirm, that Iran has **deployed S-300PMU2 long-range air defense systems to the coastal city of Busher**. The deployment already took place in April 2017 (<http://bit.ly/2whJzUg> )

### Qatar

*JDW*, 19 July 2017. For the first time, Turkey has deployed a batch of **T-155 Firtina self-propelled howitzer to Qatar**, Qatar's Ministry of Defense announced on 18 July 2017 (<http://bit.ly/2whyMt6>)

### Saudi Arabia

*JDW*, 12 July 2017. According to the UK Ministry of Defense, pre-planned **targeting** during operations by the **Royal Saudi Air Force in Yemen** comply with NATO standards, but "dynamic targeting has not always been up to the same level." This emerged from an assessment of the Ministry, "which ultimately ruled that the UK government has not broken the law by continuing to authorise defence exports to Saudi Arabia" (<http://bit.ly/2w2t3s0>)

### Syria

Reuters, 27 July 2017. Russia's President Vladimir Putin has signed a law to ratify the January 2017 deal with the Syrian government "allowing **Russia to keep its air base in Syria for almost half a century**" (<http://reut.rs/2hgySOh>)

### Turkey

*Defense News and Deutsche Welle*. On 21 July 2017, Germany has announced a review of **future defense exports** to Turkey. Ankara's response is cool indicating that German systems are "easily substitutable by local efforts or coproduction with other (Western) technology" (<http://bit.ly/2uV0Cfy>; <http://bit.ly/2uhF10R>)

*JDW*, 17 July 2017. On 15 July 2017, Turkish President Recep Tayyip Erdogan signed a decree to **dismiss another 546 military personnel** from all services. Since the coup took place on 15 July 2016, the Turkish Ministry of Defense has expelled a total of 7,655 military personnel (<http://bit.ly/2uUXrEr>)

*Quwa*, 13 and 25 July 2017. President Erdogan announced that agreements for the purchase of Russia's **S-400** surface-to-air missiles worth \$2.5bn have been inked, *Quwa* reported on 13 and 25 July 2017 (<http://bit.ly/2u0jMTS>; <http://bit.ly/2u0AHpp> )

*JDW, 17 July 2017.* On 14 July 2017, the German Bundestag's defense committee had been informed that its members would **not be allowed to visit German troops stationed at Konya Air Base** as part of NATO's AWACS mission (<http://bit.ly/2uRDjVr>)

*Defense News, 29 July 2017, and Rudaw, 19 July 2017.* On 19 July 2017, Turkey's Prime Minister Binali Yildirim announced that **Nurettin Canikli** is replacing Fikri Isik as the country's Defense Minister. Canikli comes from the ruling Justice and Development Party and is said to be business-friendly (<http://bit.ly/2whL5FV>; <http://bit.ly/2w1Y6UZ>)

### United Arab Emirates

*JDW, 3 July 2017.* On 30 June 2017, the **U.S. Navy** has awarded Assist Consultants a US\$18M contract to build a **Triton UAV facility** at Al-Dhafra Air Base in Abu Dhabi, UAE (<http://bit.ly/2ugrSmR>)

## Defense Industry

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### Iran

*JDW, 26 July 2017.* On 22 July, Iran's Defense Minister Hossein Dehghan has formally inaugurated the new **Sayyad-3 long-range surface-to-air missile production line** (<http://bit.ly/2uRQYvM>)

### Israel

*JDW, 17 July 2017.* **Aeronautics**, an Israeli UAV company, has "reached a deal to buy an unnamed American firm" (<http://bit.ly/2tVXq1Z>)

### Saudi Arabia

*Saudi Press Agency, 17 July 2017.* According to the Saudi Press Agency reporting on 17 July 2017, specialists of the King Abdulaziz City for Science and Technology (KACST) have **converted a manned aircraft into an unmanned system** (<http://www.spa.gov.sa/1648471>)

### Turkey

*TRT World, 31 July 2017.* **Bayraktar TB2 drones** equipped with smart ammunition have been successfully tested on 30 July 2017, the company said (<http://bit.ly/2wh0MNU>)

*JDW, 21 July 2017.* On 19 July 2017, Turkey's SSM has opened the tender process to construct the **Altay main battle tank**. Local companies BMC, FNSS, and Otokar are expected to compete, (<http://bit.ly/2vj2nM>)

*JDW, 14 July 2017.* On 12 July 2017, Turkey's **Anka UAV** has conducted its **first strike mission** against "five members of the outlawed Kurdistan Workers' Party", the Ministry of Defense announced (<http://bit.ly/2vjqVOz>)

*Quwa*, 11 July 2017. Turkish Aerospace Industries (TAI) has signed a **framework agreement** with PT Dirgantara Indonesia to cooperate on PTDI's N245 commuter aircraft and N219 utility aircraft (<http://bit.ly/2u0kpwT>)

*JDW*, 7 July 2017. On 6 July 2017, Indonesian President Joko Widodo, who visited Turkey, and President Recep Tayyip Erdogan agreed to **expand bilateral defense industrial cooperation**, in particular in the fields of aerospace, submarines and UAV (<http://bit.ly/2u0Ejrm>)

*Quwa*, 5 July 2017. On behalf of the Turkish Navy, the Tuzla Shipyard has launched the **fourth MILGEM Ada-class corvette** on 3 July 2017 (<http://bit.ly/2vjPSte>)

*JDW*, 5 July 2017. On 29 June 2017, Turkey's SSM has published a request for information to **develop a mini UAV for reconnaissance missions**. The RFI is "open to local companies only" (<http://bit.ly/2vf1hLj>)

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## Defense Exports

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### Iran

*Mehr News Agency*, 23 July 2017. Visiting the MAKS 2017 air show in Moscow, BG Abdolkarim Banitarafi, Director of Iran's Aviation Industries Organization, indicated that **Iran** had launched several projects with **Russia** to cooperate in **designing and exporting UAVs**. The report by *Mehr News Agency* leaves it open if this includes exports to Russia and/or exports to third countries (<http://bit.ly/2tDKNMT>)

### Israel

*JDW*, 5 and 6 July 2017. Indian defense companies Dynamatic Technologies and Elcom Systems Private Ltd have signed a **strategic partnership agreement** with IAI. The deal aims at "facilitating the transfer of IAI's expertise in UAV to India". Earlier both nations' Prime Ministers issued a joint statement on the occasion of Narendra Modi's visit to Israel indicating a commitment for a proposed **medium-range surface-to-air missile project** (<http://bit.ly/2u0pXXX>; <http://bit.ly/2veUZv3>)

### Turkey

*Quwa*, 30 July 2017. Turkey's STM will conduct a **hydrographic-oceanographic study and port design work** on behalf of Pakistan's Ministry of Defense Production (<http://bit.ly/2vf4VEY>)

*Quwa*, 25 June 2017. Pakistan and Turkey seem to discuss "administrative and financial terms" for the sale of 30 **T129 attack helicopters** (<http://bit.ly/2vjI2zT>)

*JDW, 14 July 2017.* Lockheed Martin and Northrop Grumman have received the **first center fuselage** delivered by Turkish Aerospace Industries for the first F-35A JSF to be delivered to Turkey in 2018, SSM announced on 12 July 2017 (<http://bit.ly/2uRHXTf>)

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## Defense Modernization and Support

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### Egypt

*JDW, 13 July 2017.* Due to the **lack of organic air defense systems**, the Egyptian Ministry of Defense has put AN/TWQ-1 Avengers on the flight decks of its new **Mistral** amphibious assault ships (<http://bit.ly/2vpjF4O>)

### Iraq

*Orbital ATK, 29 June 2017.* The U.S. government has contracted **Orbital ATK** to repair 12 Cessna 172 Skyhawks and five Cessna Caravans of the Iraqi Air Force (<http://bit.ly/2whNZun>)

### Israel

*JDW, 31 July 2017.* Israel has offered **Ghana** to train its special forces in using tactical surveillance UAV (<http://bit.ly/2u0I0xc>)

### Qatar

*Al Defaiya, 3 July 2017.* Dr Khalid bin Mohammed al-Attiyah, Minister of State for Defense Affairs in Qatar, met his Turkish counterpart in early July 2017 in Ankara. Official press statements did not provide details about the meeting (<http://bit.ly/2uRPrWg>)

### Turkey

*MBDA, 20 July 2017, and Quwa, 19 July 2017.* The Eurosam consortium, Aselsan, and Roketsan signed a "Heads of Agreement" outlining "the **work sharing agreements** for a definition study with the SSM on a long-range air and missile defense system to be launched in the coming months." This follows the signature of a "cooperation agreement" by Turkey with the Eurosam consortium (<http://bit.ly/2vjFQs5>; <http://bit.ly/2whLKHv>)

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## Defense Procurement

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### Egypt

*JDW, 26 July 2017.* Dassault has delivered the **first of eight single-seat Rafale C multirole combat aircraft** to Egypt. The Egyptian Air Force now has 11 out of 24 Rafales in service (<http://bit.ly/2w293WI>)

*TASS, 18 July 2017.* Egypt has received the first three of 46 **KA-52 Aligator helicopters** from Russia, while Egyptian pilots currently undergo training (<http://tass.com/defense/956802>)

*Menadefense.net, 9 July 2017.* Egypt could be interested in ordering Buyan-class **corvettes** from Russia's Zelendolsk Shipyard (<http://bit.ly/2vf3IxD>)

### **Iraq**

*JDW, 20 July 2017, and AMN, 9 July 2017.* Iraq has placed an order for **T-90 tanks**, Russian officials have confirmed without revealing the order volume. According to AMN the Iraqi Ministry of Defense has ordered 73 tanks (<http://bit.ly/2vpyQuA>; <http://bit.ly/2tW29jY>)

### **Israel**

*Haaretz, 18 July 2017.* **Germany** has **postponed** signing a **MoU** with Israel for the sale of three additional **submarines** because of an ongoing corruption probe (<http://bit.ly/2vwCQpi>)

*JDW, 14 July 2017.* On 9 July 2017, Israel's Ministry of Defense indicated its intention to purchase **equipment** worth \$424M for four thyssenkrupp Marine Systems-built **Saar 6-class corvettes** (<http://bit.ly/2vjYznp>)

### **Jordan**

*JDW, 25 July 2017.* The Royal Jordanian Air Force has augmented its fleet of **Sikorsky S-70 Black Hawk** helicopters from 22 to 24 helicopters, the U.S. Embassy in Jordan announced on 23 July 2017 (<http://bit.ly/2tVJUes>)

### **Oman**

*JDW, 31 July 2017.* Oman has received two of eight BAE Systems hawk **Mk 166 advanced jet trainers** (<http://bit.ly/2vjSnM8>)

*Quwa, 13 July 2017.* Oman has received the first batch of **PARS III 8x8 armored fighting vehicles** delivered by Turkey's FNSS Savunma. Oman has ordered a total of 172 vehicles (<http://bit.ly/2vjFG46>)

### **Qatar**

*Quwa, 20 July 2017.* The Qatar Emiri Air Force received the first batch of **Super Mushshak trainers** supplied by the Pakistan Aeronautical Complex (<http://bit.ly/2hkn26M>)

### **Saudi Arabia**

*CBC, 28 July 2017.* Canada is "deeply concerned" that Terradyne Gurkha armored personnel carriers "might have been used in a violent crackdown underway in Saudi Arabia" and is "looking into whether the **terms of the export contacts were respected**" (<http://bit.ly/2v5J3f8>)

*Flight Global*, 20 July 2017. Saudi Arabia seems to consider Textron's **Scorpion** light attack aircraft, the company revealed (<http://bit.ly/2uUSKul>)

*JDW*, 18 July 2017. A notice published on the website of the U.S. Federal Business Opportunities on 13 July 2017 indicates, that Saudi Arabia is interested in purchasing BAE Systems **M109A6 Paladin 155mm self-propelled howitzers** fitted with new turrets (<http://bit.ly/2tVvkUB>)

*Moscow Times*, 11 July 2017. Sergei Chemezov, General Director of Rostec, told TASS news agency in early July 2017, that **Russia and Saudi Arabia had agreed on an arms deal worth US\$3.5bn**. Without providing further details, he indicated the deal could be finalized during "King Salman's next visit to Russia, which could take place by the end of the year" (<http://bit.ly/2td03es>)

*Lockheed Martin*, 30 June 2017. Lockheed Martin's Sikorsky has been awarded a \$3.8bn contract by the U.S. Department of Defense for **257 H-60 Black Hawk helicopters** for the U.S. Army and Saudi Arabia. The contract includes an option for 103 additional helicopters (<http://prn.to/2whQqgu>)

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## **Military Cooperation and Training**

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### **Bahrain**

*Al Defaiya*, 6 July 2017. Prince Khalifa bin Salman Al Khalifa, Prime Minister of Bahrain, has received General Thomas Becket, UK Senior Defense Adviser to the Middle East. The Prime Minister underlined Bahrain's interest in expanding military cooperation with the UK (<http://bit.ly/2u0JV4S>)

### **Iran**

*Reuters*, 23 July 2017. On 23 July 2017, Iran and Iraq have signed an "agreement to step up military cooperation and the fight against terrorism and extremism". The agreement also covers border security, logistics, and training (<http://reut.rs/2tCKFgk>)

### **Saudi Arabia**

*Al Defaiya*, 27 July 2017. Saudi Crown Prince and Defense Minister Mohammed bin Salman has received General Joseph Fotel, Commander of the U.S. Central Command, to review bilateral military cooperation (<http://bit.ly/2f4ET0Q>)

*Al Defaiya*, 24 July 2017. Saudi Crown Prince and Defense Minister Mohammed bin Salman met Hishammuddin Hussein, Defense Minister of Malaysia. Prior to visiting Saudi Arabia Hussein was in Bahrain (<http://bit.ly/2u0JV4S>)

### United Arab Emirates

*Al Defaiya, 26 July 2017.* Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces has received General Joseph Fotel, Commander of the U.S. Central Command, to review bilateral military cooperation (<http://bit.ly/2vfgSdU>)

*Al Defaiya, 19 July 2017.* Sheikh Mohamed bin Zayed Al Nahyan, Crown Prince of Abu Dhabi and Deputy Supreme Commander of the UAE Armed Forces has received Omar al-Bashir, President of Sudan, for talks about bilateral and regional affairs (<http://bit.ly/2w237gh>)

### Cybersecurity and Space

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#### Iran

*JDW, 28 July 2017.* Iran has successfully launched a **Simorgh satellite launch vehicle** on 27 July. It is unclear if the launch vehicle was carrying a satellite (<http://bit.ly/2hjGvoa>)

#### Israel

*IAI, 17 July 2017.* IAI and Honeywell Aerospace have signed a MoU to "jointly develop and **advanced GPS anti-jam navigation system**" (<http://bit.ly/2w2sA90>)

*SpaceWatch Middle East, 10 July 2017.* In early July 2017, Israel's Prime Minister Benjamin Netanyahu and his Indian counterpart Narendra Modi have signed several **space-related cooperation agreements** to "cover specific areas of engineering cooperation and technology transfers in electrical propulsion for small satellites, developing optical links between satellites in Geostationary Earth Orbit (GEO) and Low-Earth Orbit (LEO), and the development of atomic clocks used in positioning, navigation, and timing (PNT) satellites" (<http://bit.ly/2vjRkvS>)

*SpaceWatch Middle East, 3 July 2017.* IAI is said to be under consideration by the Polish Ministry of Defense to supply **two high-resolution reconnaissance satellites** worth around US\$2bn (<http://bit.ly/2vfrObq>)

#### Jordan

*SpaceWatch Middle East, 28 July 2017.* On 19 July 2017, NATO and the Jordanian Armed Forces have inaugurated a **Computer Emergency Response Team (CERT)** that was established as part of the Alliance's Science for Peace and Security program (<http://bit.ly/2ugGF0u>)

#### Oman

*SpaceWatch Middle East, 17 July 2017.* Oman's Telecommunications Regulatory Authority has accepted the advanced **space radio monitoring system** supplied by Kratos Defense & Security Solutions (<http://bit.ly/2uRRCcv>)



### Saudi Arabia

*SpaceWatch Middle East, 24 July 2017.* Aireon has signed a MoU with Saudi Air Navigation Services to conduct a concept of operations study for "space-based Automatic Dependent Surveillance-Broadcast (**ADS-B**) as an additional layer of surveillance," the company announced on 14 July 2017 (<http://bit.ly/2u0Fh78>)

### United Arab Emirates

*SpaceWatch Middle East, 28 July 2017.* "The Mohammed Bin Rashid Space Centre (MBRSC) has joined **Sentinel Asia**, an international initiative among space agencies, disaster management agencies, and international agencies for applying remote sensing and Web-GIS technologies to support disaster management in the Asia-Pacific region" (<http://bit.ly/2uRUTZg>)

*SpaceWatch Middle East, 26 July 2017.* On the occasion of the Interpol 2017 exhibition that took place between 4-7 July 2017 in Singapore, Thuraya and Huawei signed a MoU to merge "innovative capabilities for **crisis and disaster management solutions**", SpaceWatch Middle East reported on 26 July 2017 (<http://bit.ly/2vjTII8>)

*SpaceWatch Middle East, 14. July 2017.* Masdar Institute's **CubeSat development program MYSAT-1** – designed with support from Al Yah Satellite Communications Company (Yahsat) and Orbital ATK – has completed the critical design review (<http://bit.ly/2f5gGqW> )

*Al Defaiya, 10 July 2017.* Representatives of the UAE Space Agency met with representatives of the College of Science, UAE University, and the Center for Astrophysical Research and Technology, University of New Mexico, to discuss opportunities for scientific cooperation (<http://bit.ly/2hkf4KU> )

## Critical Infrastructure Protection and Border Security

### Kuwait

*Saab, 27 July 2017.* Kuwait's **integrated national CBRN center**, delivered by Saab in cooperation with local partner Bader Sultan & Bros, is now operational. According to Saab it is first center to cover a whole country with fixed and mobile CBRN sensors and units, whilst also providing a unique capability for simulated training" (<http://bit.ly/2uRIsN2>)

#### About the ADIP News Bulletin

The Arab Defense Industry Papers (ADIP) is a new professional series focusing on the role of the defense industry in Algeria Bahrain, Egypt, Iran, Iraq, Jordan, Kuwait, Libya, Morocco, Oman, Qatar, Saudi Arabia, Syria, Tunisia, Turkey, and the United Arab Emirates. The focus of the series is on the establishment of national defense industrial bases in these countries and joint collaborative defense projects as well as defense exports. The ADIP News Bulletin complements the analytical papers by providing information about current and upcoming developments relevant for the Arab defense industrial establishment. The ADIP News Bulletin is available by subscription. ADIP and the ADIP News Bulletin are joint initiatives of Borchert Consulting & Research AG and Verocy. For more information about ADIP, see: <http://www.arabdefenseindustry.com>.

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