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4/2016

The Media Platform of the Defence and Security
Industry Association of the Czech Republic



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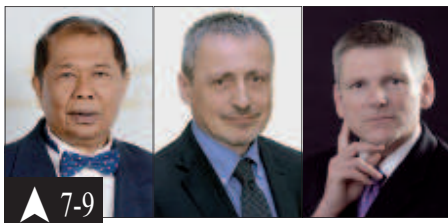
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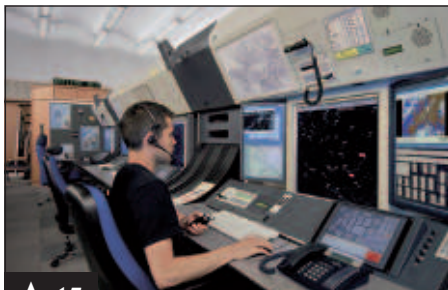


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EDITORIAL



Dear readers,

The last CDIS Review issue of this year is focused on the presentation of products of Czech companies at the INDO DEFENCE international fair which will take place in Jakarta from November 2 to November 5, 2016, where the Czech Republic will have an official national stand. As the new editor-in-chief of the CDIS Review magazine, ladies and gentlemen, I would like to wish you many business successes at the exhibition.

I would also like to make use of this occasion to thank the previous editor-in-chief, Dipl. Eng. Miloš Soukup, whose idea to make the Czech defence, aviation and security industry more visible, particularly at international fairs and exhibitions, gave birth to the first defence industry-oriented magazine, CDAI (Czech Defence and Aviation Industry) Review, as early as in 2000. Step by step, he developed the magazine into a very successful and valued periodical.

You will also find an online version of the magazine at www.msline.cz.

I hope that CDIS Review will continue to be as popular, attractive and informative under my leadership as it was under my predecessor's, and also thanks not only to our long-standing partners, but also to an exclusive editorial board.

Šárka Cook, Editor-in-Chief

* * *

Preparations of the CDIS Review 1/2017 issue which will be distributed at the IDEX 2017 international fair is already in full swing. Please send your questions concerning a presentation to: scook@msline.cz.

The city of Brno, Czech Republic, will host the IDET international fair of defence and security technologies for the fourteenth time from May 31 to June 2, 2017. Our publishing house as the main media partner for the Czech Republic is preparing a traditional Czech-English magazine, IDET NEWS, which is distributed to all exhibitors and also available at main points of entry and events accompanying the fair. You will find its 2015 version at: <http://bit.ly/1V91X1s>

Invitation to

INDO DEFENCE 2016 EXPO & FORUM

INDONESIA'S OFFICIAL TRI-SERVICE DEFENCE EVENT



November 2-5, 2016



Message by H.E. Aulia Aman Rachman Ambassador of the Republic of Indonesia

It gives me great pleasure to extend to you all a very warm welcome on behalf of the Government of the Republic of Indonesia. I am equally privileged to extend our gratitude to the Government of the Czech Republic and its and military officials as well as representatives of its leading defence and security companies who have accepted our invitation to take part on the Indo Defence 2016 Expo and Forum to be held at the Jakarta International Expo, Kemayoran Indonesia on 2-5 November 2016.



The Indo Defence 2016 Expo and Forum is one of the Asia's biggest expos and conferences on defence, aerospace and marine industries. As such, it would consist of Indo Defence, Indo Aerospace, Indo Helicopter, Indo Marine 2016 Expo and Forum. It is a groundbreaking event to spearhead the development of industries related to defence, aerospace, security services, marine technology and its relevant application in the region.

Indo Defence 2016 is an excellent venue that brings everyone together in an effort to ensure a safer world. It also reinforces Indonesia's position as a maritime fulcrum and strengthens cooperation in defence industry.

The Expo is expected to attract 25,000 prominent delegates and visitors of 750 leading companies from over 55 countries. As the Ambassador of the Republic of Indonesia to the Czech Republic, I am particularly thrilled by the participation of the Czech Republic at Indo Defence. I am sure that such participation would bolster our cooperation in this area.

The hosting of the Indo Defence 2016 is even more fitting since Indonesia is the center of ASEAN. Indonesia is strategically located between the crossroads of the busiest shipping lanes, passing from Hindian Ocean to Pacific Ocean and also at the crossroads of the two continents, Asia and Australia. Simply put, Indonesia is the gateway to the region.

Here are some benefits of Indo Defence 2016

Expo and Forum for the participants: firstly, a focused event covering the complete spectrum which includes airborne, land based and sea based platform systems and equipments; command, control, communication and information etc;

Secondly, Indo Defence 2016 will bring together decision makers from various defence authorities and companies across the world;

Thirdly, Indo Defence 2016 is perfectly timed to take full advantage of the business opportunities arising from the increase in allocated defence project;

Fourthly, Indo Defence will fully be supported by the Indonesian authorities, societies, international communities and media.

In the Asia Pacific region, Indonesia is one of the nations that is expected to show a significant growth in defence budget. According to some reputable analysts, Indonesia will have the fastest growing defence budget in the region over the next five years. Indonesia's defence budget has increased approximately 17 per cent in 2015 from \$ 6.3 billion to \$7.4 billion. Overall, Indonesia's defence expenditure would pass \$ 14.3 billion annually by 2020.

With population of 256 million people, Indonesia represents 41 % of total population of ASEAN countries of 629 million people. I am sure that Indonesia, and also ASEAN in general, serve as potential markets for the participating countries in the event.

Also, as a member of group of the world's

largest economies, the G20 and with the GDP of reaching \$ 1 trillion, Indonesia is economically strong and stable country. Indonesian has been able to maintain yearly positive economic growth in the midst of volatile and unpredictable world. Indonesia's fast-growing economy is predicted to become the world's 7th largest economy by 2030, up from 16th today.

I am pleased to witness that the Czech Republic is one of regular participants at the Indo Defence. The Czech Republic presented its advanced defence industries at Indo Defence 2014, held in Ja-

karta. The national pavilion contained displays of various Czech companies and the Czech Government has been represented by Mr. Tomáš Kuchta, Deputy Minister of Defence of the Czech Republic. The Czech pavilion enjoyed a high number of both Indonesian and foreign visitors. More than 30 representatives of leading Czech companies presented at the pavilion throughout the fair.

Among the prominent Czech companies participated in Indo Defence 2014 were Aircraft Industries, AOBP, B.O.I.S.-FILTRY, Česká letecká servisní, CzechTrade, ERA, Globe Trade Prague, GORDIC, Gumárny Zubří, LANEX, Meopta Systems, OMNIPOL, OPTOKON, Poličské strojírny, Sellier & Bellot, Sun Drive, T-CZ and VOP Dolní Bousov.

I do hope that the leading Czech Companies will take advantages at Indo Defence 2016 Expo and Forum as well as to explore possible cooperation and strategic partnership with leading Indonesian companies which also are going to participate at the expo such as PT. Pindad, PT Dirgantara Indonesia, PT PAL Indonesia etc.

On this auspicious occasion, I would like to express my sincere gratitude to the Czech delegation for participating in Indo Defence 2016 Expo and Forum especially to those who have made Indo Defence as their regular event. In concluding, I wish you every success in your participation and a very enjoyable visit to Jakarta.

Opening Speech by Martin Stropnický Minister of Defence of the Czech Republic



It is a great privilege for me as the Minister of Defence of the Czech Republic to have been invited to make a few opening remarks for this year's INDO DEFENCE Expo & Forum. The seventh iteration of this world-renowned conference, already rightfully regarded as one of the most important defence and security technology fora within the regions of Southeast Asia and Oceania.

Feeling the need to bolster their security in order to be able to face the emerging threats of the 21st century, most countries in the region have significantly increased their military spending in order to modernize their armed forces. Indonesia has steadily been at the top of these efforts in the region.

It is therefore no wonder that this November, the enormous Jakarta International Expo will once again turn into a prestigious arena where senior governmental and military delegations can meet leading global defence and security manufacturers and providers who offer cutting-edge technology for safeguarding peace and prosperity.

The regional significance of the exhibit hosted by the Indonesian Ministry of Defence cannot be overstated. It is an honour for me to be joining over 20,000 delegates and trade visitors at this fascinating four-day in-

dustry event where over 800 companies are expected to showcase a full range of their most advanced defence and security technology yet.

The Czech Republic has officially established its relations with Indonesia in 1950, and our cooperation in business and trade has always played a prime role. One of the quite recent tangible outcomes was the sale of surveillance radars for the Air Traffic Control of Indonesia. From 2 through 5 November 2016, a broad portfolio of the most representative and reliable military equipment and technologies will also be presented by around 20 Czech companies.

As Minister of Defence of the Czech Republic, it gives me pride and joy to see how successful and positively regarded our defence and security industry is, even at an exhibit with so many widely recognized world-class manufacturers and providers from all over the globe.

Czech companies offer a proven track record, wealth of experience, honed craftsmanship and customer-oriented approach which together result in reliable goods and great support services that are globally second-to-none. In light of all this, and also due to Czech manufacturers' focus on constant innovation and

improvements to ensure their products meet the highest quality standards necessary to successfully compete in the arena of international trade, our defence and security goods have successfully competed and won multiple deals in both EU and NATO member states as well as in other parts of the world.

Our national display features presentation and showcases of around 20 Czech defence and security industry manufacturers, including 4M Systems, AVEC CHEM, Česká letecká servisní, Česká zbrojovka, ERA, EXCALIBUR ARMY, EXCALIBUR INTERNATIONAL, Holík International, Lanex/Tendon, MESIT Defence, OMNIPOL, OPTOKON, ORITEST, Sellier & Bellot, T-CZ, Zbrojovka Brno and Zenit. I would hereby like to invite you all to come and visit the Czech Pavilion to inspect the goods and services they offer or just to enjoy a discussion with some of the world's most innovative manufacturers.

Ladies and gentlemen, it is my sincere pleasure to wish you success at the exhibition irrespective of whether you are part of the organizational team, an exhibitor, decision-maker or just a visitor. I wholeheartedly believe that the expo will prove to be fruitful and inspirational, and that its outcomes will include bolstering international trade and relations as well as improved security for all.

Salute by Jiří Hynek President of DSIA of the CR



Dear exhibitors, dear visitors,

Let me tell you a few words about the long-standing tradition of the Czech defence industry. It's roots reach far into the past, to the period before the First World War. Since then there have been many changes, but the Czech producers still hold a significant position among the global competitors in the wide range of commodities. For example, the passive surveillance systems from the company ERA are the Czech invention covered by global producers. Handguns, ammunition, devices for protection against weapons of mass destruction, information and communication technologies, military vehicles and aerospace technologies belong among the Czech products that are successfully exported to countries around the world. Manufacturing technologies for military production are also an important export item. Nearly 90 % of the total output of the Czech defence industry is intended for export.

In comparison with the foreign competition, the Czech defence industry excels primarily

in the area of high-tech innovations. Military technologies originating here are very sophisticated and can be adapted to the needs of the customer and his technical requirements. It often involves the integration with existing systems. In such cases, the creativity is highly important and we can say that Czechs are masters of it. Thanks to thorough care for delivered products throughout their lifecycle, its continual modernisation and a willingness to cooperate with local companies in export destinations, the Czech defence firms have a strong possibility to beat out their foreign competitors in tenders around the world.

The Czech Defence and Security Industry Association maintains numerous international contacts with its partner associations or similar organizations in the European Union, NATO member countries and other parts of the world. The Czech defence and security industry is willing and ready to contribute to eliminate a globally growing security risks.



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DSIA associates Czech companies engaged in research, development, production, trade and marketing services of the defense and security equipment and material. It was founded in 1997 as a non-governmental, independent, apolitical, non-profit organization.

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- 1) Radar Systems - the primary and secondary surveillance radar systems for air traffic control, precision approach radar systems for safe landing, ADS-B surveillance and monitoring systems,
- 2) Radio-communication systems for railways.

T-CZ is a holder of ISO 9001 Certificate and has satisfied customers in many countries all over the world.

Contact Person:

Mr. Jan Žemlička – Sales Manager



T-CZ, a.s.

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PARTICIPATION OF THE CZECH REPUBLIC

4M SYSTEMS (B 020 P) • AVEC CHEM (B 020 K) • CZECHOSLOVAK GROUP (A 149)

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EXCALIBUR ARMY (B 020 F) • EXCALIBUR INTERNATIONAL (B 020 G) • HOLÍK INTERNATIONAL (B 020 I)

LANEX / TENDON (B 020 H) • MESIT AEROSPACE (A 023) • MESIT DEFENCE (A 023) • OMNIPOL (B 020 C)

OPTOKON (B 020 J) • ORITEST (B 020 L) • SELLIER & BELLOT (B 020 M)

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New Development Driven by the Customers

When developing products and assessing our technical innovations, OPTOKON, a.s. usually reaches out to our clients (and vice-versa) for their requirements. This push and pull strategy from both sides is essential when creating the synergic effect needed for new customer-driven development.

In the beginning, we started with supplying ruggedized HMA connectors to support connectivity to optical lines.



HMA connectors

The next step in our development was Fast Ethernet media converters and then later Gigabit technology converters for providing connectivity devices with a metallic output to optical networks.

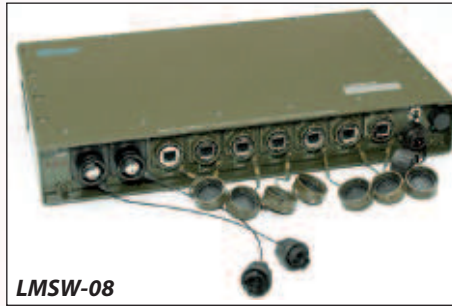


LMC media converter

Later, our customers requested active LAN devices as switches, switchboards, communication, and information modules and our development experts responded by developing these new devices required by customers. Firstly, we developed the LMSW-10 Light Mobile Switchboard with backup batteries for the connection of eight computers and two telephones followed by the development of a full family of gigabit managed Ethernet switches: LMSW-8, LMSW-62, LMSW-42 and finally switchboards such as LMSB 14.1., etc. (More details can be found in the OPTOKON Tactical Network Catalogue).



LMSW-10



LMSW-08



LMSW-42

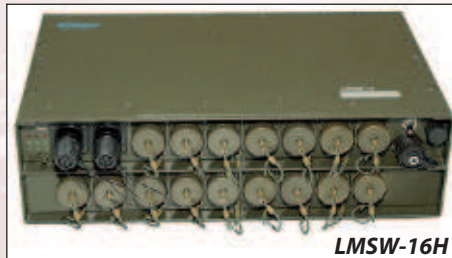
Based on customer requirements, we can deliver our standard devices in different casings and with a customer-defined number of outputs, as shown in the images.



LMR-15A



LM-VGG



LMSW-16H

Customers in different countries are using our devices more and more frequently and have

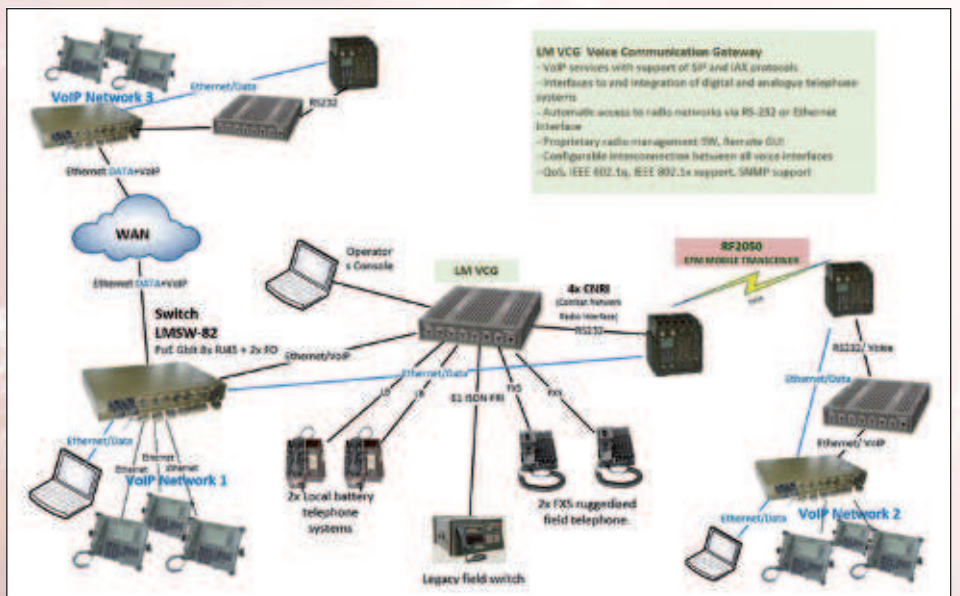
consequently formed authenticated connections, which make efficient use of the properties of all our devices and are recommended for a variety of customer applications. A more comprehensive solution is often required for larger customer applications and in response, we have developed communication and information modules. Together with the previously mentioned OPTOKON devices, these create a complete tactical LAN architecture direct connected to the optical lines.



LMSB-14.1

Growing customer interest in the high-performance, comprehensive, and robust design of tactical LAN with a direct connection to the optical line led us to the last step, which is the development of a specialized computer (LMCP) specifically for connection to IT devices, as well as for the connection of communication equipment and sensory networks.

LMCP - Light Mobile Computing Platform is a structurally small, specialized, compact computer in a ruggedized construction with various interfaces for connecting devices used in command and control systems. The **LMCP** enables users to record a video from multiple IP cameras at the same time, activate the network router, network switch, and a powerful server. It can connect to the

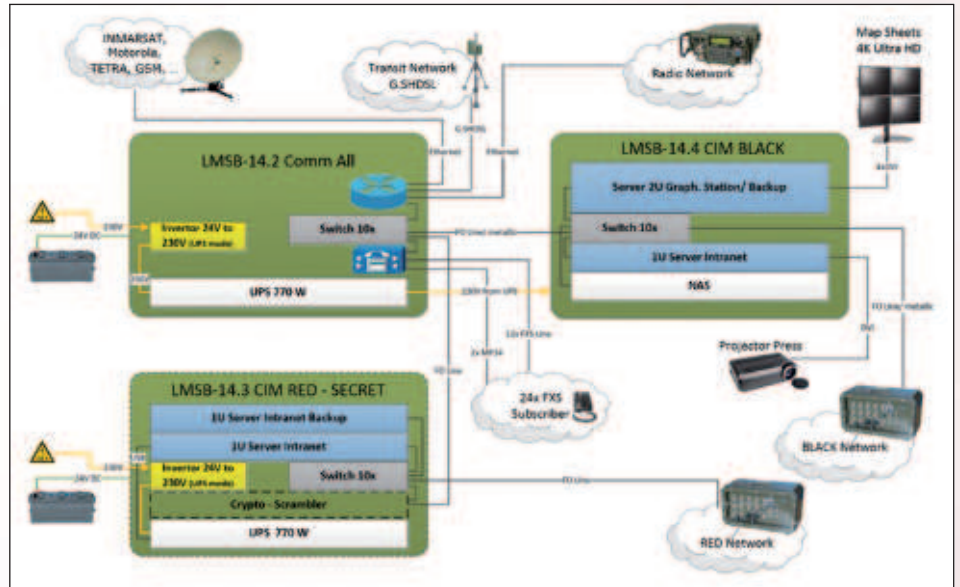


vehicle vetronics and communicate, for example, with the radio through the serial interface. It is a major advantage for the operator that all the administration can be carried out either locally LMCP (local VGA + USB port) or remotely by using the Baseboard Management Controller (BMC). The BMC allows to manage from a base level of hardware (such as BIOS, Health monitor, and Power control) to the KVM console redirection and to redirect it, including DVD and USB 2.0 data media.

LMCP is a powerful versatile mobile computing platform that integrates a robust Gigabit Ethernet router, manageable Ethernet switch and a server based on the Intel Xeon processor six core D-1528 with 9 MB Cache and a speed of 1.9 GHz. This processor family provides the System-on-a-Chip platform aimed at low power and demanding server applications. The extremely high performance supports four memory positions with a total capacity of up to 64 GB and a modern m.2 PCI-E x 4 3.0 for SSD.

LMCP offers a wide selection of data interfaces (Fast Ethernet and GigEth, HMA optical connectors, USB 2.0/3.0, video, VGA, serial, and CanBus). The security of the stored data ensures bay removable SATA HDD storage for SSD disk up to 2 TB.

The LMCP hardware design meets the demanding military requirements for small dimensions: 290 x 305 x 125 mm (w x d x h), low weight: 7.5 kg and high performance with low power consumption. The LMCP is



able to work in a challenging environment, and EMI/RFI is compatible with IP-65 standards, MIL STD-810 and MIL-STD-461, enabling tactical deployment both in the wheel and in tracked vehicles. Due to its highly resistant architecture, operation at high temperatures without fans and its dimensions make it the ideal choice for a space-constrained vehicle.

Additional parameters:

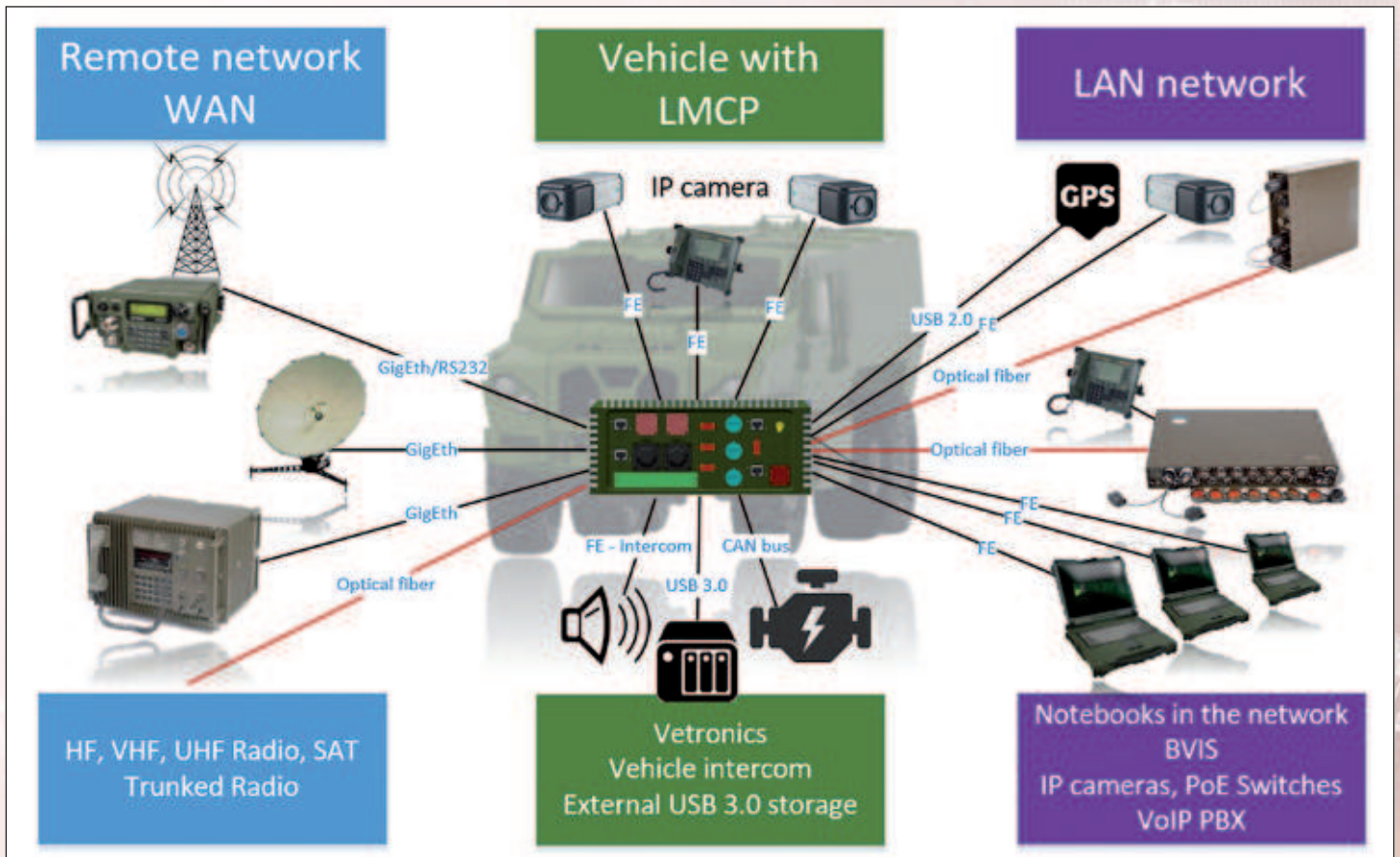
- 4x RAM DDR4 2133/1866/1600MHz ECC/non-ECC
- 3x routed GigEth interface

- 8x Fast Ethernet switch with 2x GigEth (optional optics HMA or metallic RJ-45)
- 2x RS232 and 1x CAB bus guided through D-Sub connectors, 2x USB 3.0 and 1x USB 2.0
- Power supply: 10-32 V DC

Example of application

A typical application of LMCP using all types of connected devices should be used in Signal Corps vehicles although this architecture enables to design any type of special military vehicles for use in the digital battlefield.

Doc. Dipl. Eng. Milan Šnajder, CSC.



Reliability, Tradition and Honesty – that's OMNIPOL a.s.

It is generally known that OMNIPOL has been active in the defence and security industry around the world since 1934. "However, our history started in 1919, when a separate sales department was created at Škodovy závody in Plzeň with the aim of supporting Czech and Czechoslovak mechanical engineering exports," said the company's chief executive officer Michal Hon. Fifteen years later the company's sales activities were dealing with such volumes that the decision was taken to establish an independent trading company, OMNIPOL.

"In our sector, tradition is one of the most important parameters. Our business partners – not only around the world – have known OMNIPOL for several generations and for them cooperation with us is a guarantee of a reliable, honest, serious and professional approach. We are a partner that provides its customers with individual, effective and, in particular, reliable and functional solutions," added Hon.

At the current time the sales portfolio of the OMNIPOL group is completely dominated by the defence and security industry, with a specialisation in aviation and defence

and security electronics. In 2011 the OMNIPOL group purchased a 100% interest in ERA a.s. (a manufacturer of passive tracking systems) and, thanks to a reasonable reinvestment policy after taking it over from its previous US owner, literally saved it from bankruptcy. Today, ERA Pardubice, as part of the OMNIPOL group, has some of the best economic and sales results.

"Yes, it is very pleasing, but it is good to realise that the main reason is reinvestment in research, development and modernization of production. For OMNIPOL, as the owner, it is fundamental to achieve the long-term competitiveness and profi-



ability of its companies," said OMNIPOL group CEO Michal Hon of the highly progressive results of ERA a.s.

A strategic agreement with the Swedish company SAAB shows the promising development and international attractiveness of ERA a.s. (a member of the OMNIPOL a.s. group). It is focused not only on cooperation on the potential delivery of a mobile air defence radar for the Czech Republic, but also on a whole number of other areas. In addition to other things, thanks to it winning a NATO tender to supply the VERA-NG passive tracking system ERA a.s. has very valuable practical experience on the implementation of its systems to NATO standards.

The conceptual and strategic approach of the OMNIPOL group is shown by its 50 % share in the development of a new generation of the L-39 trainer jet aircraft. In this pro-



ject OMNIPOL is also a strategic business partner. It is no secret that the aircraft has a successful past. Since 1971, when the first mass-produced Albatros (L-39 aircraft) was produced; almost 3,000 of them have been exported around the world. OMNIPOL CEO Michal Hon adds, **"Business experience, contacts and long-term professional reliability are OMNIPOL's strategic contributions to the L-39NG project. But they are not the only things. As we really believe in this project, we are contributing half the financing to its development."**

For more than 80 years OMNIPOL has been a stable, trustworthy and reliable business partner, operating in more than 60 countries around the world. In addition to aviation products, it also supplies defence and security electronics. OMNIPOL a.s. is a systems integrator and a supplier not only in the defence and security industry, but it is also active as a supplier and business integrator for deliveries of food manufacturing equipment and various technology units. The OMNIPOL group is a genuinely Czech company that focuses its activities primarily on the building and development of business relations between Czech companies and the global market.

Milan Řepka, Spokesman, OMNIPOL a.s.
Photo OMNIPOL and Anna Vacková

ERA Introduces the Novelty in its Portfolio: ERIS C2 – Integrated Air Command and Control

ERA Company has acquired R&D company C.D.K.K. REAL and thereby broadened its product portfolio - up until now focused on passive radiolocation sensors - with command and control systems and civil and military Air Traffic Management systems. ERA's strategy has been to approach the market with its own C3i and ATM solutions and the abilities of C.D.K.K. REAL experts precisely satisfy its demands and expectations, because they have a great deal of previous experiences with developing such systems. With a long term focus on civil and military surveillance and reconnaissance technology, ERA has now strengthened its market offerings.

Cooperation between ERA and C.D.K.K. REAL has already brought about some results: the brand new AirC2/ATM system called ERIS (ERA Integrated Systems) providing enhanced architecture, central configuration and a new approach to software interface. The ERIS C2 System is primarily intended for performing Air Force Command and Control (C2) functions as an essential part of national sovereignty. One of the main functionalities is providing a Global Recognized Air Picture (GRAP) for an early warning and fast decision-making process during Air Defence operations at both tactical and operational levels.

ERIS C2 is based on a modern sophisticated and modular design to meet all the requirements for a support end to end solution from planning and execution up to analysis. Each C2 system is tailored for the specific needs of the end user composed of standard modules.



Thanks to the modularity and scalability of the C2 system, ERIS can be configured from regional C2 posts to nation-wide C2 systems adaptable to any radar/sensor and to any national air defence need including Air Traffic Control (ATC) functionalities.

ERA has already offered the command and control system to defence and security company Saab to use it with their Giraffe radar in hope that the integration into one advanced, comprehensive system will have significant export potential. ERA and Saab have recently signed an agreement for future cooperation in research and development of air defence surveillance and air command technologies. This agreement involves a strategic partner-

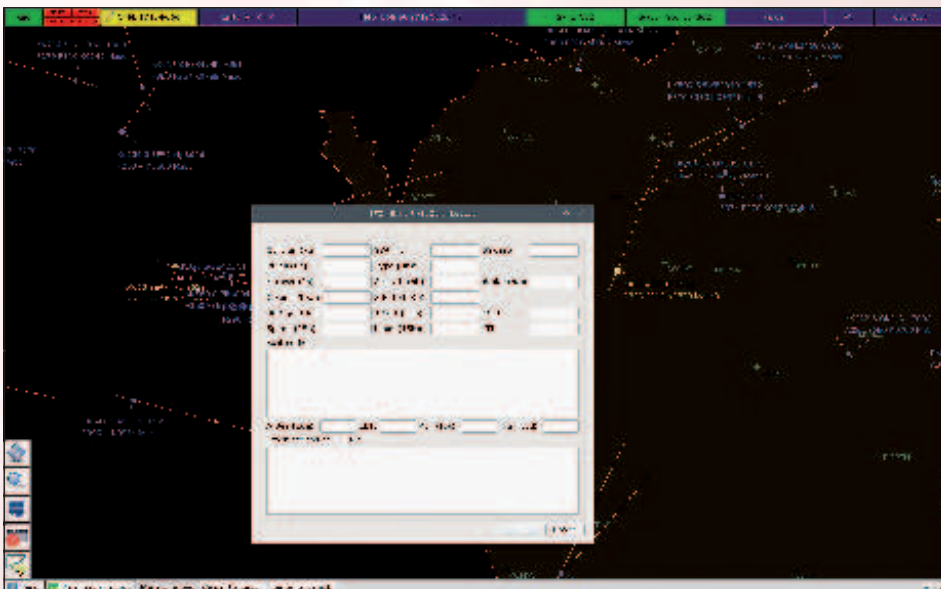
ship between Saab and ERA regarding the integration of active and passive radar systems and includes calling a tender for 3D Mobile Air Defence Radars (MADR) for the Czech Republic.

Operational functions:

- C2 Resource Management.
- Surveillance.
- Providing a Global Recognized Air Picture (GRAP) for an early warning and fast decision-making process and high accuracy local RAP supporting Weapon Systems activities.
- Force Management (Supporting the decision-making process of the Air Force Commander in operations and missions during the whole Air Tasking Cycle.
- Airspace Management.
- Air Mission Control (incl. transmission of C2 text messages, Orders, Reports & Requests).
- Military ATC.

Benefits:

- The modern sophisticated and modular design of the system.
- End to end solution from planning and execution up to analysis.
- Compliance with NATO and non-NATO Command and Control Procedures, data exchange solutions and system architecture.
- Excellent military-oriented Multi Sensor Tracker.
- User-Friendly and Configurable HMI.



CZECHOSLOVAK GROUP – Tradition and Future of the Czech and Slovak Defence Industry



CZECHOSLOVAK GROUP (CSG) is a holding company that continues the tradition of the Czechoslovak industry, which supports and further develops activities of traditional Czech and Slovak companies in the field of defence and civilian industrial production. Its portfolio includes the production and sale of military and special vehicles, off-road trucks, weapons and weapon systems, ammunition, machine industry products for the automotive, rail and aerospace industries or braking systems for rail vehicles as well as road transport and logistics services. You can see products of this holding company on all continents and the number of its customers is still growing.

TATRA DEFENCE VEHICLE (TDV)

To the holding company CSG belongs also the new entity TATRA DEFENCE VEHICLE (TDV), which is engaged in the development and production of advanced special ground vehicles on

wheeled and tracked chassis. In addition to the production of special military vehicles, it carries out also their repairs. The company TDV was opened also thanks to strategic cooperation with the group General Dynamics European Land Systems (GDELS) and other foreign partners. In January 2015 the holding company CSG concluded the strategic partnership with GDELS, that brought to it a know-how for production of modern wheeled and tracked armoured vehicles. Thanks to this partnership it obtained exclusive rights for promotion, sales, production and maintenance of the family of armoured vehicles Pandur II 8x8 for Czech Republic and other selected markets in Eastern Europe and Asia. And just the production of vehicles Pandur II is a principal program of TATRA DEFENCE VEHICLE. The company also carries out overhauls of tanks T-72 and service of vehicles Land Rover. TDV is engaged not only in the production of vehicles Pandur II 8x8, but also in the develop-

ment of new variants. The vehicle structure provides the resistance against bullets from 7,62 mm to 14,5 mm, fragments of artillery and mortar shells as well as the improved protection against mortar bombs and explosive systems. The interior space allows the transport of 14 crew members. Pandur II 8x8 is able to overcome water obstacles by swimming and can be transported by tactical transport airplanes. Pandur II 8x8 is a platform with the various weaponry suitable for a wide range of versions, from armoured fighting vehicles, armoured personal carriers, communication and command vehicles, special reconnaissance variants with tracking systems, to carriers (supports) of heavy weaponry, armoured ambulance cars etc.

EXCALIBUR INTERNATIONAL (EI)

The company EXCALIBUR INTERNATIONAL, belonging to the portfolio of CSG holding is focused on business with aeronautical technology

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and special material, including related logistics and after sales service. The offer of EI includes, for example products of the company TATRA TRUCKS, TATRA DEFENCE VEHICLE, ZVS - manufacturer of ammunition and guns or manufacturer of special vehicle bodies and containers, company KARBOX. EI provides comprehensive solutions according to customer requirements, comprehensive of not only technology delivery but also quality support services for the life cycle period of the technology. The company EI is able to integrate also projects of manufacturers and supplies outsider of CSG holding.

EXCALIBUR ARMY (EA)

The company EXCALIBUR ARMY is focused on the upgrade of military vehicles of various types with high combat performance at a very favourable price and has own production and development capacities and experts. To the most interesting upgrade projects of recent years belongs the self-propelled howitzer Dana M1M or infantry fighting vehicle Jackal, representing an advanced modernization of IFV-2. The company offers even modernization of rocket artillery systems. It is the type RM-70 M1 or the latest project of the rocket launcher RM-70 Vampir, both on TATRA chassis.

RETIA

The company RETIA of the CSG holding is a strategic company of the Czech military industry non only in the production area and development of radar systems, but also in the area of command and control systems and special

electronics. For the Czech army it has successfully modernized for example, control and guidance systems of anti-aircraft missile sets 2K12 KUB, delivered the command and control system of anti-aircraft defence of the type RACCOS and short range radar ReVISOR. For the police, rescuers or customs officers it produces portable detection radar ReTWis, which is able to observe persons behind solid obstacles. For civilian area RETIA supplies recording systems of the ReDat family, including advanced voice recognition software. The company RETIA is also one of the few Czech producers who has experiences in international armament project of NATO. It has namely participated in the development and production of a ground component of the Alliance surface surveys also known as AGS. One of the latest RETIA's projects is the cooperation with the Israeli radar manufacturer ELTA Systems in the tender for delivery of air defence radars of the category MADR for the Czech army.

KARBOX

KARBOX Company is a leading Czech and European manufacturer of integrated containers, container shops and container and box bodies for chassis of utility vehicles and trucks. The offer includes not only integrated containers, such as medical containers (field hospital), kitchen, but also mobile containers for special electronics or command and control emplacements, transport containers, waste containers, and last but not least, fire-fighter bodies (superstructures) for trucks.

TATRA TRUCKS

The car factory TATRA TRUCKS ranks among the oldest car factories worldwide. Trucks from Kopřivnice are famous thanks to their trafficability through the most difficult terrains in extreme weather conditions, high reliability and excellent utility properties. The original concept of chassis is a unique part of Tatra vehicles. Its significant feature is the central supporting tube and independently suspended swinging half-axes forming one unit. It's just TATRA concept that provides vehicles Tatra with extraordinary capabilities when driving even through the most difficult terrain.

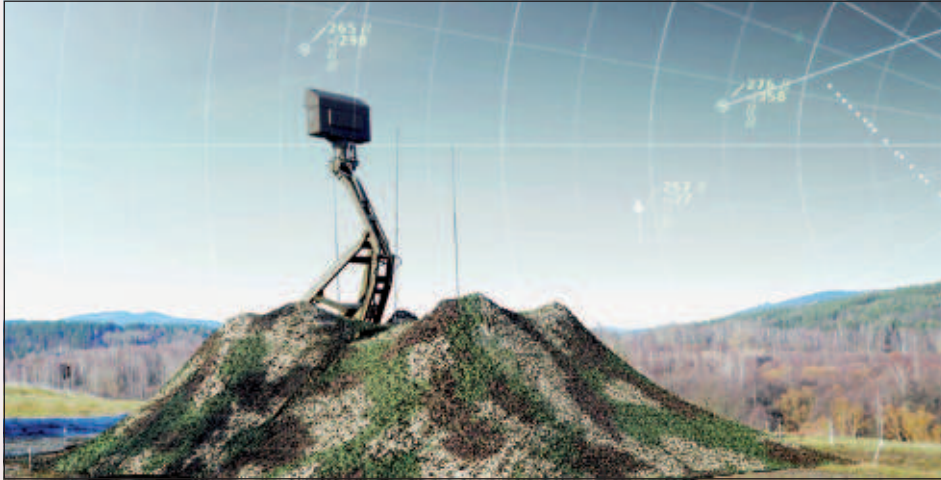
Approximately three quarters of the production of this truck producer are intended for export, as evidenced by big contracts and positive references from all world places. India is a very important market and is one of the main customers of TATRA TRUCKS. It delivers to Indian army vehicles since the late eighties, in total for India over 6500 vehicles were produced. A key partner is the Indian company BEML, which ensures supplies of Tatra trucks for the Indian Army.

One of the main types of military program of the company TATRA TRUCKS is the heavy truck TATRA FORCE. It is standardly equipped with armoured cab, whose resistance can reach the STANAG standard level 2. TATRA TRUCKS newly, thanks to cooperation with the company PLASAN SASA offers vehicles FORCE with cab with resistance at the level 3-3a/3b.

www.czechoslovakgroup.cz



ReVISOR - Short Range Radar



Successfully integrated into the Ground Based Air Defence units of the Czech Armed Forces.

Short range radar ReVISOR is a basic radar sensor of the battlefield airspace survey. ReVISOR detects, identifies and tracks air targets with high accuracy and a data refresh rate. The ReVISOR is designed to support modern SHORAD/VSHORAD systems, and for this purpose is equipped with a Communication Module and Command and Control (C2) Module. The ReVISOR can simultaneously transfer air picture data in real time to the superior Command Control Post (CCP) and to the subordinated Ground Based Air Defence (GBAD) weapon systems that can be effectively managed through the ReVISOR Commander's Workstation (CWS). ReVISOR is capable of detect and track low-small-slow (LSS) targets - drones / UAV tar-

gets (during NATO exercise Iron Sword 2014 a stealth technology UAV was revealed and tracked by ReVISOR).

ReVISOR is a light-weight mobile unit, installed usually on a single-axle trailer. Full azimuth coverage is provided by a rotation of compact radar head which can be elevated up to a higher position by a raising mechanism. The radar head contains nearly all key radar components such as the coherent X band transmitter, digital receiver, flat face antenna array, IFF MARK XII interrogator with IFF antenna and other supporting units and RF assemblies. The undercarriage part is presented in most cases by a single-axle trailer or light military vehicle containing a power generator, Communication Module, Signal and Data Processor and optionally C2 module. This design allows the installation of the radar on the various platforms based on customer's needs.

ReVISOR processes, evaluates and automatically transmits the target coordinates in the form of plots or tracks. The architecture of the radar enables the concentration of all resources to the detection and tracking of low-flying targets (including hovering helicopters) as well as of targets with a low RCS - especially the UAVs. The position of the detected targets is given with the high accuracy.

RETIA, a.s. has developed and produced other parts for the Command and Control system of Air Defence units.

RACCOS - mobile command and control system of AD units capable of on the move operation.

ReWET NG - weapon terminal designed as an interface for Short Range AD Weapons.

ReTOB - air observer apparatus acting as a gap filler for the shorter distance.

RETIA, a.s. has also realized the modernization of the **P-18, P-19, P-37, ST-68** radars.

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Radar technology
C2, C4I2, C4ISR Systems
Modernization of defence equipment

T-CZ, Expanding Radar Company Enters new Territories in Asia

World's current situation is forcing the nations to invest more in defence technologies, including air defence systems that also belongs to quickly developing branches. That is why we have visited the "center of radar technology in the Czech Republic" city Pardubice where company T-CZ, a.s. is located and asked commercial director of T-CZ, Mr. Jan Köhler for the short interview.



Mr. Jan Köhler – Commercial Director of T-CZ

It has been some time since we have talked with you, could you briefly introduce the company and its activities?

Core business of T-CZ, a.s. is the development and production of specialized electronics in Radar and Radiocommunication Systems branch. Company follows the tradition of its predecessor TESLA but also reflects to the newest trends in ATC and air defence area. We possess with our own electronic and mechanical production shops, research and development department and provide the full package of services in the way of turn-key deliveries. All mentioned capacities enable us to follow the modern trends and develop

an up-to-date technology. Main products of company are the primary and secondary surveillance radar systems for air traffic control, precision approach radar systems for safe landing, ADS-B surveillance and monitoring systems, railway radiocommunication systems and various mechanical engineering products.

How is your business going and what is new in your company during last few years?

Company has done a big step forward in terms of investments to property and equipment, research and development of new

technologies, finishing of deliveries of few big projects and entering new markets. From the business point of view I would mention the finishing of several radar upgrades and installations in our traditional Asian territories, new realized project in India, delivery of new radiocommunication systems in the Czech Republic but especially successful delivery of brandnew Air Traffic Control Radar including construction of buildings in Indonesia. Radar has been successfully installed, commissioned and is in operation. This was an important milestone in our cooperation with esteemed Indonesian customer and we look forward to further coming projects.

And what about your R&D and new technologies, do you have some new products?

I am happy to say that despite the gap of micro wave and SW specialists on the job market we are well increasing our research and development capacities, making the team younger, fresher and even more powerful. Thanks to it we have already developed our successful ADS-B product family and also new precision approach radar, fully solid state with electronic scanning antenna. Recently we have also received some new R&D grants so we can look ahead more strategically, focus on new products with future potential and make our portfolio even wider in the next years.

Could you shortly describe your ADS-B solution?

Basic principle of ADS-B is that data from aircrafts are received and decoded by Ground Stations with antennas and transmitted to central tracker. Air traffic situation is displayed on the screen and can be also further processed and sent to other users or superior systems. We deliver professional ADS-B Surveillance / Monitoring systems in modern and small design, one Ground Station is equipped up to 8 channels so you can have very good quality overview of air situation. System is robust, designed for outdoor installations, so you can just install it on the roof and passively receive the data. Last but not least, our system is very price competitive in comparison with another companies. We have delivered it to the USA, Germany, the Czech Republic, Indonesia etc.

What is the new PAR which you mentioned?

Main purpose of this radar is to guide an aircraft for the safe landing, especially in case of bad weather, visibility conditions etc. We have used our know-how and experiences from many years of deliveries of our mechani-



cal PAR and developed fully solid state precision approach radar with electronic scanning antenna, with support of one international company. We are proud to declare that radar has been developed, produced and successfully tested by the real flight checks so we are sure that this X-band radar will be very interesting for many, not only Asian, countries.

We see some construction works in your facilities in Pardubice.

During last two years we have done significant investments to our property and improvement of our area. After general reconstruction of main building we have done a new entryway to area, gate and road in front of the main building. Because of company's growth and increasing number of employees we decided to build a completely new building in the rear side of our area where the radar testing site is placed. The new building will create better and larger workplace for the radar tes-

ting as well as new space for radar technicians, R&D and service department. Besides this we are currently also building a new reception in the ground floor of a central building. To sum it all up, company is looking ahead, building better facilities, enlarging capacities and expanding commercially as well as in its assets.

Mr. Director, thank you for interview.

Eva Soukupová
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TACTICAL COMMUNICATION AND AVIATION EQUIPMENT

INDO DEFENCE 2014



The INDO DEFENCE exhibition of military, air and naval technologies took place in Indonesia's capital Jakarta between November 5 and 8, 2014.

Held for the sixth time, it was held less than two weeks from the appointment of the new Indonesian government and presented a good opportunity for many of its members, as well as for the newly elected president of Indonesia, to publicly announce their principal intentions in the military and political areas. Following the change of the political orientation of the country toward democracy sixteen years ago, all aspects of life have been gradually changing, and now the turn of the army and police has come. In 2014, Indonesia's defence budget rose by 1.5 to less than USD 8 billion (i.e. approx. 0.9 % GDP), and a further growth up to USD 15 billion is expected in the years to come. This information is a strong enough argument for major global defence companies to present themselves to representatives of Indonesia's political and military circles, as well as to the public. The number of exhibitors rose by almost

30 %; more than 600 exhibitors from 50 countries participated in the event. Roughly a half of the countries, including the Czech Republic, opted for a joint national stand. The participation of the most important global manufacturers was motivated by announced modernization programmes and a declared generous acquisition policy until 2024, which will include all major types of equipment.

More than twenty Czech companies that took part in the 6th INDO DEFENCE Exhibition have more modest ambitions than the major international defence corporations, but there are still attractive opportunities, mainly in the fields of electronic systems and personal equipment of both military and civilian personnel.

Czech Republic at INDO DEFENCE 2014

For the third time in a row, the Czech Republic made its presentation at the INDO DEFENCE Exhibition using a joint national stand coordinated by the CzechTrade agency. Altogether 22 Czech companies took part in the event; compared with 2012, there were five more, while seventeen had already participated before and their several years' efforts to obtain a contract is gradually taking a more concrete shape. The offer of products and services included mainly special electronics, from radio transceivers to strategic monitoring systems, traditional firearms, including ammunition and optics, CBRN protection products and personal gear and equipment. The proverbial door to leaders of the Indonesian Ministry of Defence and Armed Forces was being successfully opened by a delegation of the Ministry of Defence of the Czech Republic led by Deputy MoD Tomáš Kuchta, while staffers of the Czech embassy in Jakarta provided knowledge and information about the local environment. Indonesia is a very promising market for Czech products and several years of efforts to win contracts is slowly bringing so much expected outcomes.

CDIS Review



EVPÚ Defence Lays Emphasis on Quality

The technology of monitoring systems ranks amongst the very important factors of defence for both military and civil needs and customer's requirements for monitoring systems grow bigger every day. Thanks to its effort for continuous improvement and development of its overview, the company EVPÚ Defence, which influences the market over fifteen years, belongs amongst the world's top in this field.

Recently, the company has bought a new, advanced device for daylight and infrared camera optical attribute's measurements. Thanks to this device, collimator DT250, we are newly able to test optical attributes of daylight and infrared optical systems without further increase of our product's price, or test already complete optical devices in case of interest of the customer.

One of the main tested parameters, characterizing monitoring system quality, is MRTD characteristics (Minimum Resolvable Temperature Difference) for infrared and MRC characteristics (Minimum Resolvable Contrast) for daylight cameras. EVPÚ Defence company sticks during its measurements with unified rules given by the international standard STANAG and thanks to that, the results of detection, recognition and identification ranges according to precisely stated conditions are ensured during our



measurements, allowing to find a suitable solution for every individual customer.

Amongst the other tested parameters of our monitoring systems are MTF characteristics, spatial and temporal noises determination, geometrical and TV distortion measurement, daylight camera systems sensitivity, or verifying of field of view dimensions.

Thanks to professional and individual approach the company EVPÚ Defence guarantees optimal solution's achievement for each individual problematic and our customer's contentment is our priority.

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- surveillance vehicles equipped with TV, infrared and optical sensors and laser rangefinders
- multisensory heads and containers
- two-axis pan/tilts with or without stabilization
- special cameras and SW applications

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VOP CZ – Leader of Military Equipment Upgrading Programmes

VOP CZ is the leader of military equipment upgrading programmes in the Czech Republic. Thanks to its own development center, one of specializations are upgrading projects in which the company makes use of its long-standing experience with the production and repairs of equipment and is able to find suitable specialists and partners thanks to which the upgrading and modernization programmes it has completed so far

are world-class. Thanks to its history dating back more than seventy years, modern production facilities and advanced development capabilities, the company is well prepared to handle demanding modernization projects according to customers' requirements, an example of which are upgrading projects of wheeled and tracked vehicles delivered to the Army of the Czech Republic.



Repairs and upgrades of tracked vehicles

- Upgrading of the T-72 MBT to the T-72M4 CZ MBT and T-72M4 CZ-W command tank versions – the complete modernization of the T-72 main battle tank achieved a standard comparable to that of 3rd generation tanks in terms of mobility and maneuverability (a more powerful powerpack with an automatic gearbox), more effective fire (a new fire control system) and better passive and active protection.
- Upgrading of the VT-72B ARV to the VT-72M4 CZ version – the modernization helped the armored recovery vehicle achieve a standard comparable to that of the T-72M4 CZ MBT and T-72M4 CZ-W command tank.
- Upgrading of the mount of the NSV 12.7 mm AA machine gun of the T-72 MBT – the new remote-controlled weapon station permits the tank commander to control the machine gun inside the turret, under armor protection.
- Repairs and complete overhauls of T-72 main battle tanks – during its existence, the company has repaired about 4,600 tanks from the inventories of the armed forces of the Czech Republic and Slovakia, including 260 T-72s and T-72M4 CZs.

- Renovation of historical military vehicles – the company offers professional and sophisticated assistance in repairs of historical military vehicles to collectors, museums or enthusiasts. When renovated, the historical vehicles look exactly the same as on the day they rolled down the assembly line many years ago. Examples of renovations include LT-35 and LT 38 light tanks, IS-3 and M36 Jackson tanks, or HKL 6p half-tracks.

Repairs and upgrades of wheeled vehicles

- Repairs of TATRA T 815 and T-810 trucks, including their role versions (cranes, tank trucks, container carriers, CBRN vehicles, combat engineer vehicles, mobile workshops etc.) – the company provides maintenance and carries out routine repairs both at home and abroad, trains workshop specialists and crewmembers, and supplies spare parts and components.
- Repairs of Pandur II 8x8 CZ infantry fighting vehicles, including all special role versions – the company has manufactured altogether 107 vehicles for the Army of the Czech Republic and is thus well prepared for their repairs.
- Modernization of IVECO light armored vehicles

- to make the vehicles deployable in international missions, they have been equipped with Kongsberg Protector remote-controlled weapon stations (RCWS), navigation and communication systems, jammers, Ramsey electric winches etc.
- Repairs of LANDROVER off-road vehicles, including all special role versions.

VOP CZ, s.p., is a major defence company and a recognized foreign partner for mechanical engineering cooperation projects. Insofar as military equipment is concerned, the company supports the entire lifecycle of wheeled and tracked ground vehicles in the inventory of the Army of the Czech Republic, including development, manufacture, warranty and post-warranty maintenance, routine and on-condition repairs and complete overhauls, inspections and storage, upgrading and environment-friendly disposal.

In 2015, VOP CZ, s.p., reached a turnover of more than CZK 1.3 billion. It employs over 850 people who together offer a broad portfolio of professional services related to both defence and civilian production. The company will celebrate seventy years of its existence this year.

www.vop.cz

On-Board Avionics for Launchers, Satellites and UAS/RPAS by esc Aerospace

esc Aerospace is a leader in the field of on-board software & hardware in Europe and is one of the leading SMEs in innovative R&D projects with a focus on Aerospace and Defence. esc Aerospace is experienced in the areas of Avionics, Autonomous Software, Counter-Unmanned Aerial Systems (C-UAS) and Guidance, Navigation & Control (GNC) systems.

Our product range includes various On-Board Control Systems for vehicles and payloads, ranging from ionizing radiation hardened detectors to data relays and Sense & Avoid Systems. Commercial products include central avionics, now in its 3rd generation for UAS/RPAS incl. Autopilot, Trajectory Management and Tracking functions. The 4th generation GNC Avionics is being developed for Launchers and Missiles, Satellite instrumentation and the Satellites themselves.

The GNC guided weapons techniques are being evolved from basic research into system technologies such as image processing, guidance, navigation, control, aerodynamics, human factors and communications. A competitive advantage of our GNC System is in the system concept: flexible architecture allows customers, partners or integrators a usage of existing technologies in novel ways.

esc Aerospace uses modern and state-of-the-art processes, modelling and tools in order to reduce the life



cycle costs, e.g. the enhanced GNC systems and avionics and their related operating cost impact. By having these concepts and tasks integrated into programming and development environments before testing, esc Aerospace is able to estimate the total project costs more accurately with a much higher degree of confidence.

esc Aerospace's next advantages are in a flight preparation and flight operations derived from a generic framework. By utilizing known, qualified and tested generic approach, new innovations on control, GNC and on-board software can be quickly and reliably performed, from single level operational behaviour through multi-level. All processes are a baseline for functional and autonomy requirement definition and support in a development of tools for Validation & Verification.

esc Aerospace is the Czech MOD Authorised and Contracted Expert for EDA JIP RPAS WG (European Defence Agency Joint Investment Programme on Remotely Piloted Aircraft Systems working group). esc Aerospace is involved in utilizing legislative documents for RPAS/UAS public operations in the Czech Republic and other European countries together with sister companies in Germany, Poland and Austria. Further, esc Aerospace is an active member of DSIA's section for Autonomous systems and robotics.

www.esc-aerospace.com

EXPLOZIA a.s.

Explosia a.s. is a production and trading company operating primarily in the field of production of explosives and services associated with application of energetic materials for commercial as well as military use. The company was established in 1920 and since then it has existed in a series of various forms and business groups - from an independent joint-stock company through the plant within greater company units back to self-managing company (since June 1st, 2002). Company holds an important position in the field of explosives and propellants in the Czech Republic market, and it is also an important exporter, primarily to EU countries.

- Production of Explosives
- Production of Propellants
- Special production
- Research and Development of Explosives



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www.explosia.cz

NCS College 2016



The University of Defence together with the NATO Group of National Directors on Codification AC/135 organized the third edition of the international codification courses NCS College 2016 in Brno between the 29th August and 23rd September 2016. The Course for managers and logisticians and the following Course for codifiers were attended by students from 15 countries from 4 continents, including the Czech Republic. The academy participants learned about the management practices of codification processes, the establishment of national codification bureaus and acquired spe-

cific knowledge and habits of codifying material of the NATO Codification System (NCS).

The codification, which is also called the DNA of logistics, provides the unmistakable description of weapons, military equipment and other military materiel, and other manufacturers and suppliers in an international dimension, allowing the unambiguous characterization of military commodities. The codification provides, for example, the necessary interoperability in the acquisition process of the armed forces, prevents duplication of procurement of



material and enables replenishment of armaments and equipment in foreign missions. At present, the NATO Codification System is used in more than 60 countries in total.

The main lecturers of this year's NCS College were Jeffrey Merrell from the USA (DLA LIS), Thierry Vanden Dries, the chairman of AC/135 and other representatives of the NSPA, University of Defence and National Codification Bureaus from Canada, Spain and Czech.

The informational, organizational also lecturing support was provided by the Brno based company AURA, which is engaged in the development and implementation of the codification software MC CATALOGUE. This software was just recently supplied to the armed forces of Australia, the total number of countries from around the world using this codification software is 16.

The NCS College in 2016 was also significantly supported by the Defence and Security Industry Association of the Czech Republic.

During the learning and training in both codification courses, the students visited also the Security Center of Material Technical Services in Štěpánov, the Material Security Center of Logistics Services in Brno and the National Codification Bureau of the Czech Republic (at the Defence Standardization, Codification and Government Quality Assurance Authority) in Prague.

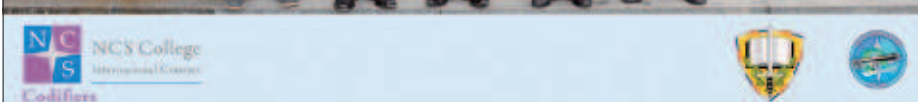
The attendants of the NCS College did not only appreciate the high-quality of teaching but also the academy accompanying programs, where they learnt about remarkable monuments and the current state of the Moravian city of Brno and South Moravian region, Prague and other cities of the Czech Republic. Many of them have already booked a seat for themselves or their colleagues from the National Codification Bureaus for the next NCS College 2018.

* * *

The Dean of the Faculty of Military Leadership colonel Vladan Holcner along with other representatives of the faculty handed over the certificates of attendance of the NCS College to 24 students, reaching the number of more than 70 people for all three years. This was very positively appreciated by the current Chairman of AC/135 Thierry Vanden Dries, as well as irreplaceable participation of the University of Defence.

Antonín Svěrák

Photos: Viktor Sliva, Antonín Svěrák



6th INTERNATIONAL CONFERENCE ON MILITARY TECHNOLOGIES

May 31 to June 2, 2017 Brno, Czech Republic
Call for Papers / Workshop Proposals



The 6th International Conference on Military Technologies (ICMT) is an international forum for exchange of innovative ideas in domain of military technology. The conference is accompanying scientific program of International Exhibition of Defence and Security Technologies IDET 2017, the biggest military exhibition in central Europe. The city of Brno is located in the middle of the Moravia. The city has about 400,000 citizens. It offers many attractions including its historic centre, dam, close to Austerlitz battlefield. The city is nearby to Vienna as well as Prague airports.

Scope

- Weapon Systems
- Special and Combat Vehicles
- Military Engineering
- Geospatial and Meteorological Support
- Communication and Information Systems
- Air Force and Aircraft Technology
- Avionics and Aircraft Armament
- Radar Systems
- Military Cybernetics
- Robotic Systems

Proceedings

All accepted and presented papers will be published in ICMT 2017 Conference Proceeding. The Proceeding will be submitted for indexing in **IEEE Xplore[®] digital library**, **Thomson Reuters ISI Proceedings**, **SCOPUS** and Google Scholar databases. Selected papers will be published in special issue of **Advances in Military Technology** journal indexing in SCOPUS and **EBSCO**.

Student Paper Competition

Students of Master and PhD degree are encouraged to submit their papers to the ICMT 2017. The three overall winners will receive valuable prizes.

Organiser



Faculty of Military
Technology

Important Dates

Papers Submission December 15, 2016
Workshop Proposal December 31, 2016
Notification of Acceptance March 17, 2017

Contacts

E-mail: icmt@unob.cz
Web: <http://icmt.unob.cz>

Partners & Sponsors



Security & Defence Technologies Catalogue

Czech-English publication providing comprehensive summary of possibilities and capabilities of Czech firms engaging in research, development, production and commerce of military and security technologies and materials, or operating in the related spheres. The MS Line publishing house has been preparing the tenth issue of the Catalogue of Security and Defence Technologies for the 2017 – 2018 period, which will be available as a hard-cover Czech-English publication and also on-line.



Visit: <http://bit.ly/1UY6c9r>



IDET NEWS

Czech-English specialised publication focused on support and presentation of Czech and foreign defence industry on the occasion of the IDET Trade Fair. Companies can present themselves in this publication by the form of paid advertisement or PR articles. Exhibiting firms have the opportunity to briefly present themselves for free with mentioning number of their stands.

Visit: <http://bit.ly/1V91XIs>



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- CDIS Review
- Review for Defence and Security Industry
- IDET News
- Security & Defence Technologies Catalogue



New potential for Czech-Swedish cooperation

Swedish Saab and its Czech strategic partner ERA (subsidiary of Omnipol) have submitted, through the Swedish Government, a joint bid in Mobile Air Defence Radar (MADR) tender held by the Ministry of Defence of the Czech Republic.

At the outskirts of NATO Days 2016 defence show in Ostrava, both companies confirmed that their strategic cooperation presents an outstanding opportunity not only to deepen mutual cooperation between Sweden and the Czech Republic but also for building new European defence capabilities.

"We are offering a fully compliant technical solution based around the state-of-the-art Giraffe G4A radar and surveillance system. Our partnership with Czech defence industry that includes production, maintenance as well as R&D activities. Thanks to cooperation with ERA, the radar will be fully integrated into command and control system of Czech Republic's air defence," said Krasimira Stoyanova, Head of Central Europe, Market Area Europe, Middle East and Africa at Saab.

Saab's offer includes the full industrial participation of ERA and Saab's local facility in Slavkov, adding value to the Czech industrial base and securing highly-skilled jobs in the Czech Republic for many years to come.

Full-fledged industrial cooperation between Saab and ERA provides Czech defence industry with strong potential in terms of high value added of the



Anders Linder, Head of Business Unit Surface Radar Solutions at Saab, and ERA Pardubice CEO Viktor Sotona toast to the successful collaboration of both companies in the field of research and development of active and passive radar technology.
(Photo: Květoslav Frgal)

knowledge economy as well as long-term progressive development of highly qualified workforce in the Czech Republic. According to Krasimira Stoyanova, the case of the Gripen offset program

accompanying lease of supersonic aircraft for the Czech Air Force proves that Saab always fulfils on time what it promises in terms of industrial cooperation.

ERA has Passed a Factory Acceptance Tests for the ADS-B System in Sri Lanka

ERA announced that in August 26, 2016 has successfully passed Factory Acceptance Tests for the ADS-B System to be used by Airport & Aviation Services [Sri Lanka] Limited.

ERA is delivering a system comprising five redundant ADS-B stations as well as ADS-B data fusion and a data display system. The contract was assigned by the local ANSP in January as a result of a tendering process, which ERA successfully won in the end of 2015.

"The selection of ERA is the result of the worldwide competitive tendering process where ERA has been selected as the successful bidder after an intensive technical and administration evaluation. Our experience in the deployment of surveillance solutions in other states of South-East Asia such as India, Indonesia, Malaysia and Singapore was also one of the key factors in selecting us for this project," stated Viktor Sotona, ERA Managing Director.

A one week of testing at ERA factory has been scheduled together with factory training for AASL Technical staff to fully familiarize with given ADS-B system. Apart from redundant ADS-B ground stations, testing procedures have been fo-

cused on ADS-B data fusion and data display system based on ERA's ERIS product family.

A high quality and reliability of ERA products

(namely NEO by ERA and ERIS) has been verified and confirmed during the Factory Acceptance Tests, which has been successfully passed.



On ADS-B technology and NEO by ERA

ADS-B represents dependent information on data from the aircraft's navigation system, ADS-B equipped aircraft broadcast their GNSS positions once per second. The information received by the ADS-B ground station includes the aircraft's identification, altitude, speed, velocity, etc.

NEO by ERA - 4th generation of certified mature Multi-sensor Surveillance system MSS. This multi-resolution system (MLAT, WAM, ADS-B, PRM, HMU) has a robust system design, enhanced signal detection, reduced power consumption and is compliant with international standards (ED-117, ED-142, ED-129, ICAO Annex10 volume IV, etc.).

On the MST component part of ERIS by ERA

The MST (Multi-Sensor Tracking) is up-to-date data fusion developed for reception and processing of surveillance data received from individual sensors, its fusion and the creation of a real-time, unique air situation picture.

www.era.aero

Agados Trailers Have Proved Themselves Even in the Most Difficult of Conditions Serving the Army and Emergency Services

AGADOS spol. s r.o. company from Velké Meziříčí will celebrate 25 years in the market this year. For many years it has been in the position of one of the biggest European trailer manufacturers and the leading manufacturer in the Czech Republic, thanks to not only its focus on its customer needs but mainly one hundred and twenty years of tradition of Czech engineering production. By combining quality processing and modern design it becomes a real number one in the market.



The Agados Trailer Development Centre has been an important innovator in the market in the long-term view. The designers and developers follow the trends in the field but they also listen to the needs of their customers. Thanks to that they come with more and more quality products which can transport virtually anything. The development always follows its own path and after dozens of years of experience the company has a very wide range of goods which are offered by means of its branches in many European countries.

Agados trailers are not only a series of quality trailers for the transport of goods, materials, vehicles, animals or liquids. Regularly they also manufacture various special trailers made to measure. With

regard to the growing interest from security and emergency services, they have focused even more on development and production of robust trailers for difficult conditions and after several successful projects they have proved their position in this area.

Everybody who does not choose a trailer from a wide range of their braked and non-braked types of various applications, sizes, materials used and ample accessories can have a turnkey concept made for them. For example armed forces often need variable chassis for its various vehicles. Whether it is a universal carrier for ammunition, material and equipment or a chassis for vehicles, drones, robots, a tank truck, a mobile laboratory or an electricity generator, Agados is able to satisfy these needs.

To mention some important deliveries, Agados has had successful cooperation with the Army of the Czech Republic, Police of the Czech Republic, Military Police, Fire Brigade of the Czech Republic or for example special products manufactured for the needs of the Swedish Army in Qatar. A custom made moulded cover from hardwearing plastic looks like new even after five years of its use in hard African conditions and the other parts of the trailer also do not show any signs of wear and tear. The company aims to supply trailers to its customer that can be used for many years and therefore they also provide complete servicing and sale of spare parts, even for older types.

Numerous positive references prove that Agados is a reasonable choice when you need to extend your transport possibilities and use your current vehicle fleet at the same time. Buying a trailer is less expensive than buying a special vehicle. It is also the reason why there is an increased demand for trailers at the moment.

If you need a trailer, choose Agados. Quality trailers from a Czech manufacturer which has been a market leader for 25 years.

For more information, visit www.agados.cz.

Exercise Sky Soldier II. Paratroopers Seize Hradčany Airfield



At the coordination exercise, Sky Soldier II, held from 26th-30th September at Ralsko-Hradčany area, Czech and American airborne troops carried out several air drops and, conducting "close air support", "took back" the airfield, facilities and the adjacent area occupied by the "enemy".

Paratroopers of both the Czech 43rd Airborne Battalion, 4th Rapid Deployment Brigade, based in Chrudim and the U.S. 1st Squadron, 91st Cavalry Regiment, 173rd Airborne Brigade (Sky Soldiers) based in Grafenwöhr, Germany were provided with a unique chance to train together in airborne operations.

Approximately 250 Czech and 150 American soldiers participated in the exercise. The integrated

planning, joint air drops and ground operations contribute greatly to improving tactical airborne proficiency and unifying operating procedures. It also provides closer interaction between soldiers, which serves to reinforce their unity and support for each other, as well as increasing interoperability and strengthening partnerships between allied airborne forces.

The exercise began with the air drop of a reconnaissance group and snipers from an L-410, followed by four rounds of jumps from a CASA C-295M. For the last two air drops, both Czechs and Americans jumped from a C-17 Globemaster at 300 meters. The whole operation was supported by a Czech L-159 ALCA aircraft providing simulated bombing and live fire.

"This exercise is exceptional for three reasons. Firstly, the soldiers train over and on unknown territory, away from normal military training areas. Secondly, Czechs and Americans fulfil tasks jointly in one formation, and not individually and, finally, for the first time, Czechs paratroopers have been given an opportunity to operate new equipment using advanced technologies," said General Josef Bečvář, Chief of the General Staff, speaking to journalists who had been invited to the exercise.

This was not the first exercise of its kind carried out in the Czech Republic. The first Sky Soldier exercise, using the same units, was held at Bečyně in September last year.

- MO CR -

OPTOKON Announces the Grand Opening of the new OPTOKON KABLE Factory in Pelhřimov, CR



OPTOKON a.s., the renowned Czech fiber optic manufacturer is pleased to announce the opening of the 5,000 m² OPTOKON Kable Co., Ltd., s.r.o. The official inauguration and ribbon cutting ceremony took place at 3 p.m. on Monday 26th September and was attended by the second president of the Czech Republic, prof. Dipl. Eng. Václav Klaus, CSc.; Member of the Chamber of Deputies and the Governor of the Region of Vysočina MUDr. Jiří Běhounek; President of DSIA RNDr. Jiří Hynek; and the Mayor of Pelhřimov, Dipl. Eng. František Kučera.

The ceremony featured one of the country's upcoming talents, the Pelhřimov classical singer Ondřej Slavičinsky who gave performances of the aria *La Calunnia* from *The Barber of Seville*, *Con te partiro* made famous by the legendary Andrea Bocelli and *Nespravedlivý bůh* from the Czech musical *Dracula*. As a special bonus, there was a symbolic cultural exchange between the investors that gave those in attendance the opportunity to experience first-hand some of the customs and cultural traditions of the investors.

The project, which sees the largest ever investment by a Saudi company in the Czech Republic, will deliver more than 155 million CZK of investment over the next two years. The first phase of the project began in September 2015 with the construction of the first building in the new industrial zone in Pelhřimov and was completed in April 2016. Full testing of all technologies has since been completed and the first products off the production line were shipped for use in the production of the parent company OPTOKON in Jihlava. Mass production commenced on 1st October 2016.

"I am delighted to be joining MOHAMMED and

ABDULRAHMAN AL OMRAN to celebrate the grand opening of the company's new production facility in Pelhřimov," OPTOKON General Director Jiří Štefl said. "I am grateful to the AL OMRAN Company for their well-founded confidence in our local workforce and in our business climate, and I am proud that it will be our people from Vysočina who will be producing innovative fiber optic cable for use across the world. This is a private investment where AL OMRAN sought to invest in a country with an excellent global reputation for technical knowledge and the Czech Republic is widely known to meet this criterion. OPTOKON Kable can greatly assist OPTOKON in expanding its business in the Kingdom of Saudi Arabia, the U.A.E. Oman, Kuwait, Bahrain and Qatar."

Since starting the project, OPTOKON Kable has hired employees locally and plans to expand this to 15 employees in the near future and 50 employees by 2019. OPTOKON Kable will produce high-quality flame retardant fiber optic cable designed for highly demanding installations in data centers and modern multi-purpose buildings. The cables are available in various designs with a wide range of options and modifications to meet the exacting requirements of today's global customer portfolio Headquartered in Jihlava, Czech Republic, OPTOKON is a 100 % Czech-owned company that oversees the OPTOKON Group, which includes the new joint-venture OPTOKON Kable Co., Ltd., s.r.o. Further members of the group are the eight representative offices or companies across Europe, America, Asia Pacific, and the Gulf Region. The company produces high efficiency fiber optic components and technologies delivered to the commercial and military market segments.

Photo: Miloš Soukup



OPTOKON TACTICAL NETWORK

OPTOKON NATO SUPPLIER CODE: 1583G

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Czech Army
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WWW.OPTOKON.COM

Publishing Plan of CDIS Magazines in 2016 and 2017

REVIEW for DSI (czech copy and czech + english on-line edition on www.msline.cz)

Review for Defence and Security Industry 4/2016

Deadline: 8. 12. 2016 Put into print: 22. 12. 2016 Expedition: 11. 1. 2017

Available at the annual editorial board meeting in Ministry of Defence resort in January 2017.

Review for Defence and Security Industry 1/2017

Deadline: 3. 3. 2017 Put into print: 17. 3. 2017 Expedition: 24. 3. 2017

Available at annual general meeting of DSIA CR.

Review for Defence and Security Industry 2/2017

Deadline: 5. 5. 2017 Put into print: 19. 5. 2017 Expedition: 26. 5. 2017

Available at the annual of IDET 2017.

Review for Defence and Security Industry 3/2017

Deadline: 25. 8. 2017 Put into print: 8. 9. 2017 Expedition: 15. 9. 2017

Available at the annual of NATO Days.

Review for Defence and Security Industry 4/2017

Deadline: 1. 12. 2017 Put into print: 15. 12. 2017 Expedition: 22. 12. 2017

Available at the annual editorial board meeting in Ministry of Defence resort in January 2018.

CDIS REVIEW (english copy and english on-line edition on www.msline.cz)

Czech Defence Industry & Security Review 1/2017

Deadline: 9. 1. 2017 Put into print: 20. 1. 2017 Expedition: 27. 1. 2017

Available at the annual of IDEX (Abu Dhabi) – 19.–23. 2. 2017.

Czech Defence Industry & Security Review 2/2017

Deadline: 11. 8. 2017 Put into print: 25. 8. 2017 Expedition: 1. 9. 2017

Available at the annual of DSEI (London) – 12.–15. 9. 2017.

Czech Defence Industry & Security Review 3/2017

Deadline: 27. 10. 2017 Put into print: 9. 11. 2017 Expedition: 16. 11. 2017

Available at the annual of MILIPOL (Paris) – 21.–24. 11. 2017.

Publishing plan will be in the course of the year 2017 updated of any other shows.

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