

# Czech Defence Industry & Security REVIEW®



1/2016

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



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# 20<sup>th</sup> Anniversary of MS Line

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Two decades are a relatively long period of time, although they may sometimes seem just a fleeting moment. With the MS Line Publishing House, everything started twenty years ago from the scratch, i.e. without any experience and without much money, and fortunately also without any competition, simply without almost everything; moreover, no one seemed to want us. We were reaching into the unknown, walking an untrodden path, as the issues we intended to cover had previously been taboo. Some five years later, the Military System Line Publishing House had already been stabilized and has not changed much in the next fifteen years; it still publishes the Czech "Review for defence and security industry" and its older English brother, CDIS Review. However, it was initially published only semiannually; a few years later, with the arrival of the "Review for defence and security industry", our publishing house also started publishing a dedicated printed medium named IDET NEWS, which subsequently evolved into a hard-copy and later also an electronic versions of the Catalogue of Security and Defence Technologies of the Czech Republic. Its first edition was christened at the IDET fair by the then Prime Minister Miloš Zeman. It is true that, for well-known reasons, this area had been absent in the history of Czech journalism; and it is equally true that all the new "post-revolution" periodicals mentioned above were debuts in both Czech and Czechoslovak history.

## Fifteen years ago, we awarded our first prizes to the best

At present we bestow memorial letters and awards to the best products, outstanding personalities and leading companies every year. Moreover, we do so in front of an audience that only a few publishing houses can boast of. Our company, MS Line s.r.o., is a completely Czech publishing house which, thanks to its tenacity and pro-active approach, holds a leading position even after twenty years.

We are proud you have been with us for twenty years, and pleased that we have been able to spend the same time with you.



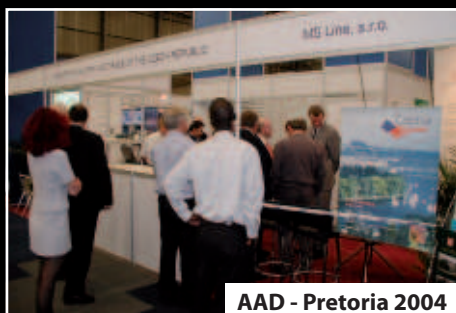
AEROSALON - Dubai 1997



S.I.A.E. - Paris 1999



ZHUHAI - China 2004



AAD - Pretoria 2004



IDEX - U.A.E. 2005



ILA - Berlin 2006



DEFENDORY - Greece 2006



FIDAE - Chile 2008



EUROSATORY - Paris 2008



IDET - 2007



IDEX 2007 - Czech Embassy



DEFENDORY - Greece 2008



ANNIVERSARY EDITORIAL BOARD - JANUARY 2016



IDEB - 2008



FUTURE FORCES - 2014



EDITORIAL BOARD - 2008



EDITORIAL BOARD - 2009



INTERSCHUTZ - 2015

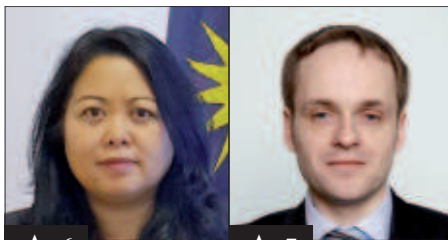


DSEI - 2015



EDITORIAL BOARD - 2016





▲ 6 ▲ 7



▲ 8 ▲ 9

Opening Speech to DSA 2016



▲ 10-17 DEFENCE SERVICES ASIA



▲ 26-27 MILIPOL 2015

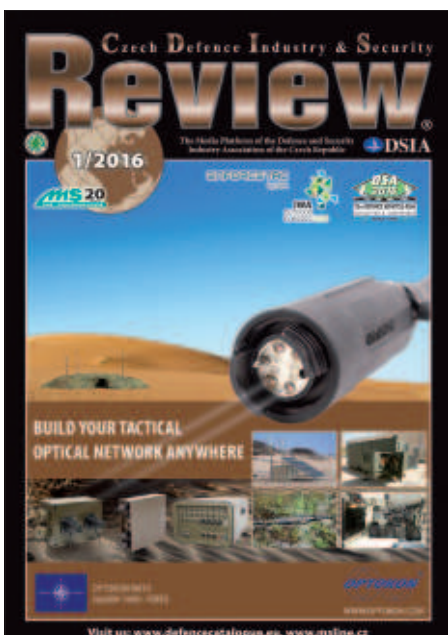


Photo on the cover: OPTOKON, a.s.

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### Advertisement at CDIS Review 1/2016

AURA – pages 27, DSIA CR – page 5, ENFORCE TAC – page 20, EUROSATORY – page 17, EVPÚ Defence – Third page of cover, EXPLOSIA – page 22, FUTURE FORCES – page 19, IWA/ENFORCE TAC – page 21, MESIT defence – page 13, OMNIPOL + ERA – Fourth page of cover, OPTOKON – Title, pages 9 and 17, QUITTNER & SCHIMEK – pages 15 and 25, VELETRHY BRNO - IDET 2017 – page 23

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1/2016

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## EDITORIAL



Dear readers,

*We would like to thank you for having been with us in 2015; we would also like to thank to members of the Editorial Board and invited guests for turning up in such high numbers at the annual meeting of the Editorial Board of the "Review" magazines and the follow-on friendly party with awards for the best, which took place in January 2016.*

*We appreciate the fact the event was attended by many leading representatives of government and public administration bodies and top managers of more than 60 leading defence and security companies of the Czech Republic. The meeting was also attended by several Defence Attachés, including, for the first time ever, those of the United States and China. In the year we are commemorating 20 years from the establishment of our publishing house, MS Line s.r.o., the annual meeting was attended by 60 members of the Editorial Board and more than 90 guests. You will find more information about the meeting and those who received awards on Page 28, and especially in the first issue of the Czech "Review for defence and security industry".*

*Last year was a tough test of endurance and abilities for our publishing house and editorial staff. I think all REVIEW issues, be they in English or Czech, are the best proof of it. I would like to mention, in particular, REVIEW issues dedicated to the IDEX fair in Abu Dhabi, IDET fair in Brno, Interschutz fair in Hannover, MSPO in Kielce, DSEi exhibition in London, or Milipol in Paris.*

*This year, our editorial team intends to focus on media support of the Czech defence and security industry at events such as IDEB in Bratislava, Eurosatory in Paris, MSPO in Kielce, Future Forces in Prague, and INDO DEFENCE in Jakarta.*

*The first issue you are holding now concentrates on support of Czech manufacturers and businessmen in the region of southeast Asia during the April 2016 DSA exhibition in Malaysia and ENFORCE TAC and follow-on IWA events, which will take place from March 2 to 3 and from March 4 to 7, respectively, in Nuremberg, Germany.*

*By way of conclusion, I would like to wish, on behalf of the editorial team of CDIS Review and naturally also on behalf of MS Line, the Czech defence and security industry many development, manufacturing and of course commercial successes in 2016.*

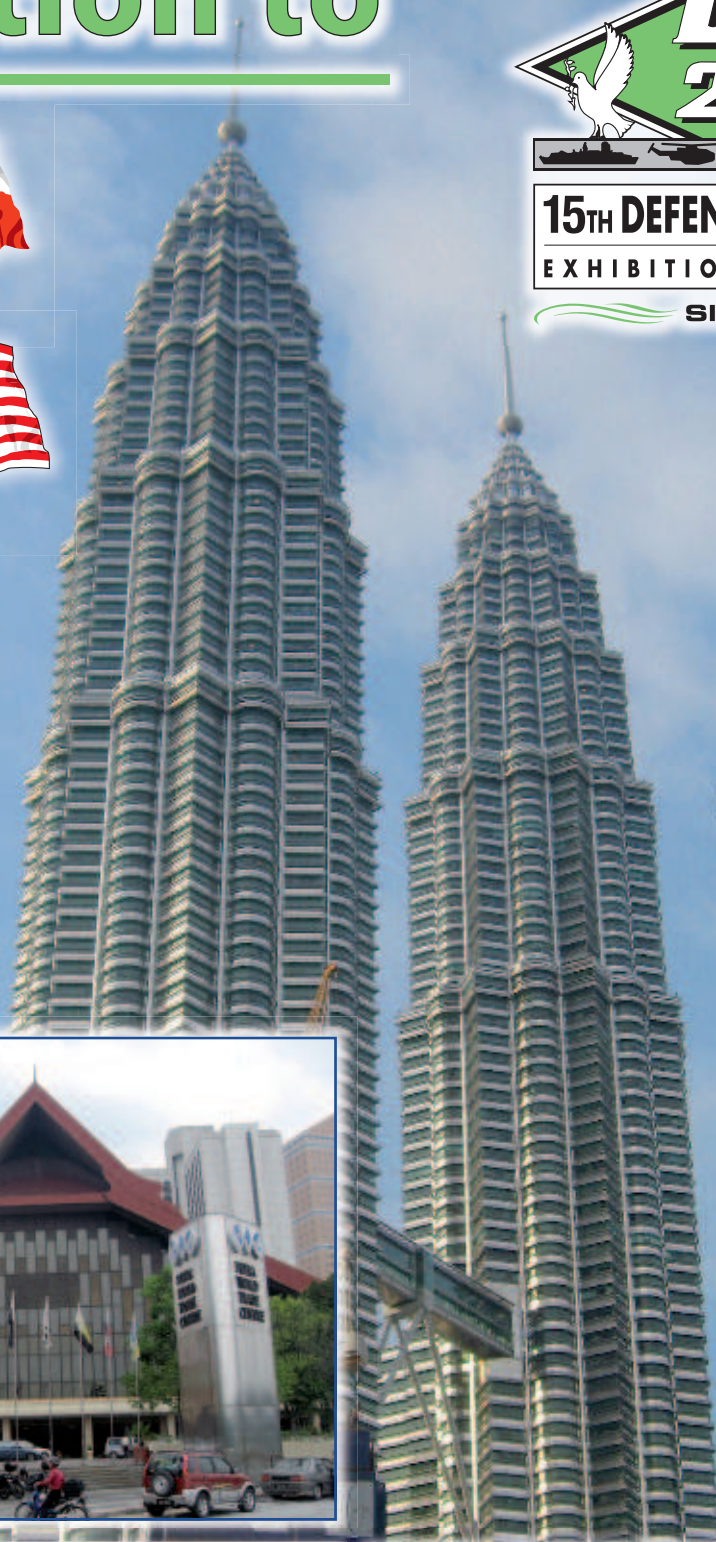
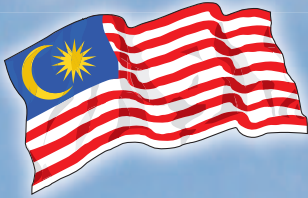
*Lt-Col (R) Dipl. Eng. Miloš Soukup, Editor-in-Chief*

# Invitation to



**15<sup>TH</sup> DEFENCE SERVICES ASIA**  
EXHIBITION & CONFERENCE

SINCE 1988



## LIST OF CZECH PARTICIPATION 2016

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## Message by H.E. Nadzirah Osman Ambassador of Malaysia to the Czech Republic



***As the Ambassador of Malaysia to the Czech Republic, it is my great pleasure to welcome Czech's government and military officials as well as representatives of leading defence and security companies to the 15<sup>th</sup> Defence Services Asia Exhibition (DSA) which will be held from 18-21 April 2016 in Kuala Lumpur, Malaysia. The DSA series has gained a reputation as one of the world's top five defence and security exhibitions and Asia's largest. DSA 2016 is expected to attract 1,500 of the world's leading players from over 60 countries, including 30 international group pavilions in an exhibition area of 41,000 square metres. The 4-day event is expected to attract 30,000 visitors from more than 60 countries.***

DSA provides an excellent opportunity for government and military officials, and companies presenting a broad portfolio of defence and security products and services to gather under one roof in the interest of advancing global defence and security. Similar to previous DSAs, this year's exhibition will also include the Chief of Army Roundtable Talks, the Cyber Security Forum, the Humanitarian Assistance & Disaster Relief Forum and the Battlefield Healthcare. Other programme highlights include the Malaysian Defence and Security Procurement Centre where defence procurement and security procedures are made available, as well as the much anticipated Business to Business (B2B) meetings.

I am pleased that the Czech Republic has been a regular participant at the DSA exhibitions. In 2014, H.E. Tomáš Kuchta, Deputy Minister of the Ministry of Defence of the Czech Republic led a delegation of government officials and 16 companies showcasing products such as radar technology, communications equipment, hand guns, ammunition, optical instruments, individual protection equipment and various others defence and security related products. Among the prominent Czech companies participated in DSA 2014 were ERA, OMNIPOL, Ceska Zbrojovka, DICOM, MESIT, OPTOKON, Poličské strojírný and Sellier & Bellot. The Czech Republic has a long tradition of manufacturing high quality defence and security products which is why Czech exhibitors attract a large number of potential buyers and visitors at previous DSA exhibitions. I hope that Czech companies will also take the opportunity during DSA 2016 to explore possible collaboration and strategic alliances with leading Malaysian companies that are expected to be at the exhibition such as Boustead DEFTECH, Sapura, SME Ordnance and Weststar, to name a few. Bilateral relations between Malaysia and the Czech Republic have always been warm and

cordial and was further strengthened in 2015 with the visit of H.E. Lubomír Zao-  
rálek, Minister of Foreign Affairs of the Czech Republic to Malaysia and the visit of H.E. Tan Sri Abu Zahar bin Dato' Nika Ujang, President of the Senate, Parliament of Malaysia, to the Czech Republic. Bilateral trade between Malaysia and the Czech Republic from January to December 2015, stood at EUR 1.06 billion as compared to EUR 861 million for the same period in 2014, representing an increase of 23.5 %. During this period, Malaysia was the 2<sup>nd</sup> largest trading partner of the Czech Republic within ASEAN. The establishment of the ASEAN Economic Community on 31 December 2015, will allow for a freer flow of goods, services, investment capital and skilled labour in the region. With a combined GDP of USD 2.5 trillion and a consumer base of 625 million people, ASEAN has emerged as a major market both regionally and globally. We welcome Czech companies to actively explore the economic opportunities in Malaysia and to consider Malaysia as a gateway for Czech companies to venture into ASEAN and other regional markets. Such endeavours to promote new areas of economic cooperation would certainly intensify bilateral relations further. I would like to thank the Czech delegation for participating in the DSA 2016 especially those who have been returning year after year to support the event. I wish everyone a great success at DSA 2016.



## Salute by Jakub Kulhánek Deputy Minister Ministry of Foreign Affairs of the CR



Dear readers,

I was asked by the editors of the Czech Defence Industry & Security Review to share with you a few words and thoughts on this year's Defence Services Asia exhibition. It is my pleasure to do so. As a Deputy Minister of Foreign Affairs in charge of security and multilateral issues I am responsible for shaping the Czech Republic's foreign policy approaches to issues addressed by NATO, the EU and the UN. It is thus my daily challenge to deal with the multiple international security crises currently facing the international community. I am also responsible for the foreign policy aspects of the control of exports of arms and dual-use goods.

To effectively ensure national security and sovereignty, both on the military and on the diplomatic and foreign policy levels, the government and its security and defence forces need to have up-to-date defence and security equipment. Strong security and defence forces are a guarantee of the government's capability to fulfil its commitments towards allies in the interests of regional and international security.

That is why events like the DSA are so impor-

tant. This biannual exhibition with an accompanying programme hosted and supported by the Ministry of Defence of Malaysia, Malaysian Armed Forces and Royal Malaysia Police is now in its fifteenth year, which shows that it is rightly considered one of the top five defence and military exhibitions in the world. The exhibition that will take place on 18-21 April in Kuala Lumpur, Malaysia, will host around 1,200 companies from 60 countries on 41,000 square metres of exhibition space. There will be 28 international pavilions presenting major defence and military equipment producers.

The Czech Republic will of course have its own pavilion. Our defence and security industry has a long tradition dating back to the Hapsburg Monarchy and namely to the 1920's and 1930's when former Czechoslovakia was among the world's top five military equipment producers. In recent years, after the changes in 1989, Czech security and defence industry adapted to the changing needs of the Czech Republic, its partners and allies. Today, the Czech Republic is among the top ten EU producers.

At this year's DSA, visitors will see the products of more than ten leading Czech com-

panies including Česká zbrojovka, ERA Pardubice, OMNIPOL, Sellier&Bellot.

Czech manufacturers are traditionally at the cutting edge in sectors such as aircraft and aircraft support equipment, small arms and light weapons, and ammunition. It is also worth mentioning our excellent know-how in high-tech radio communication and surveillance equipment and our production of advanced CBRN defence systems and equipment for the protection of soldiers and police officers. Czech companies also have unique know-how in modernizing "eastern production equipment" such as tanks, APC's, howitzers and other ground vehicles to meet the current needs and quality standards. This is an especially important strength today when many armies around the world are faced with the question whether to modernize at an effective cost, or to replace their existing equipment.

I hope that Czech defence companies will once again convince military decision makers of the high quality, reliability and cost-effectiveness of their products. As I have mentioned, a strong and well-equipped army and police is the key pillar of our internal and external security as well as of international order and peace.

## Salute by Tomáš Kuchta Deputy Minister Ministry of Defence of the CR



It is my distinct honour and privilege as Deputy Minister of Defence of the Czech Republic to say a few words on the occasion of this year's Defence Services Asia Exhibition in Kuala Lumpur, Malaysia. Taking place already for the 15<sup>th</sup> time, the DSA is right fully regarded as one of the top five most prominent defence and security technology exhibitions in the whole world, being a leader of its kind in South-East Asia. In 2016, once again this prestigious event awaits a broad representation of leading global defence manufacturers and expects to welcome dozens of official governmental and military delegations from all over the globe.

From 18 to 21 April this year, Kuala Lumpur will become the centre of defence and security industry trade negotiations. The significance of this event can be easily demonstrated by figures from previous DSA exhibitions. In 2014, contracts worth more than four hundred million Euros were signed by the Malaysian government only and a similar feature is expected this year as well. More than a thousand leading companies accompanied by Defence Ministers and Deputy Ministers, Chiefs of General Staff and over three hundred other senior military representatives from sixty countries will take part in this event. Among them, on almost 120 square metres, around 10 Czech companies will present a broad portfolio of the most representative military equipment and technologies, showing Czech defence and security industry's capabilities and capacities across the board.

Being responsible for supporting our high

quality defence and security industry products abroad as a Deputy Defence Minister, it makes me proud to note that it truly deserves its place in such a respected company. Our industry's rich tradition dates back to the interwar period, when Czechoslovakia was one of the leading arms producers and exporters on a global scale. In recent decades, it has primarily focused on aircraft and aircraft support equipment, ammunition, and small arms and light weapons. More over, it has excelled in designing the most advanced passive surveillance and radar systems, chemical, biological, radiological and nuclear defence systems and equipment, high-tech radio communication systems, special fabrics for military applications and many other products.

The long-term experience that Czech manufacturers have gathered paves the way for coming up with innovative and modern products and services that meet the highest quality standards necessary for successfully competing in NATO and European Union member states as well as in other parts of the world. In this regard, Czech defence and security industries have enjoyed vital support from the Czech Defence and Security Industry Association as well as from the Ministry of Industry and Trade, Ministry of Foreign Affairs and the Ministry of Defence. The Czech national display at DSA 2016 is going to show case a wide range of passive surveillance systems, weapons and ammunition, advanced telecom

systems, optronics as well as highly effective chemical warfare agents and industrial contaminant detection systems, camouflage systems and other attractive items on display. The Czech Republic's national display exhibit includes presentation of operations by additional prominent companies such as Avec Chem, Česká zbrojovka, ERA, DICOM, MESIT, OMNIPOL, OPTOKON, Sellier & Bellot, and many others. As it has been the case in previous years as well, the MS Line publishing house with its CDIS Review is going to represent the Czech defence-oriented periodicals. DSA 2016 is going to provide multiple opportunities to confront the cutting-edge of Czech made products with what their foreign competitor scan offer, providing the Czech industry with a comparison that will enable them to keep up with prominent world wide operating defence and security contractors. The high lights of the program will include the previously successful Chief of Army Roundtable Talks, while cyber security sector is going to be the strong theme of DSA 2016. Furthermore, this year will continue in the DSA tradition focusing on the topic of Battlefield Health care with Chemical Biological Radiological Nuclear Explosives and Humanitarian and Disaster Relief being its main pillars. Apart from displaying the products themselves, visitors will have the opportunity to engage in discussions with senior armed forces officials. It is my sincere pleasure to wish the organizers, exhibitors and visiting decision-makers success, inspiration, fruitful exchange of information and indeed everything they expect such an important event to deliver.

## Salute by Jiří Hynek President Defence and Security Industry Association of the CR

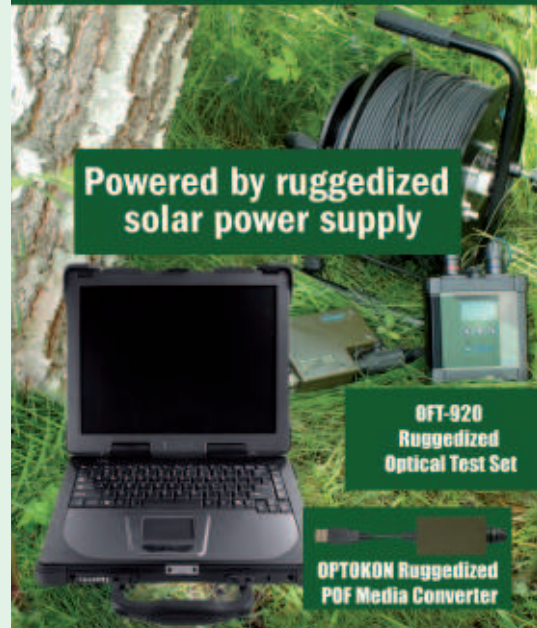


The roots of the Czech defence industry reach far into the past, to the period before the First World War. Most of the weapons used by the military of the Austro-Hungarian Empire originated in the Czech lands. During the First World War, the industry developed to such a degree that in 1918 the newly established Czechoslovakia instantly became one of the world's biggest arms exporters; by 1926 it was the third-biggest exporter with a 15 % share of global production, which grew to 25 % in 1935. Though the Czech defence industry does not play such a dominant role today as it did between the world wars, it still holds a significant position among global competitors in certain commodities. For example, passive surveillance systems from the company ERA are a Czech invention coveted by global producers. Handguns, ammunition, devices for protection against weapons of mass destruction, information and communication technologies, military vehicles and aerospace technologies are

among the Czech products that are successfully exported to countries around the world. 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, whereas it is always necessary to adapt them to the needs of the customer and its technical requirements, which often involves integration with existing systems. In this case, creativity is highly important and Czechs are masters of applying it. Thanks to thorough care for delivered products throughout their lifecycle, continual modernisation and a willingness to cooperate with local companies in export destinations, Czech defence companies are a suitable partners in improving your safety and protection. You can convince yourself about this fact and you will be fully satisfied.

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These requirements are for us new challenges, which require extended our offer exactly according to their needs.

This approach of our flexible development and needs of customers creates a synergistic effect and results of this effort are equipment tailored to customers.

The result of the efforts of the Division of research, development and innovation in the OPTOKON, a.s. are the new devices, which are described in detail in our new catalogue, which you can download from our web site, here are listed only the basic characteristics:

### LMSW-F6 - Optical Switch

The LMSW-F6 is **managed ruggedized Gigabit switch** with 4~6 optical ports that provide stable and reliable Ethernet transmission.



The Ethernet switch support a variety of management functions, including STP/RSTP/MSTP/ ITU-TG.8032 Ring and multiple u-Ring for redundant

cabling, layer2 Ethernet IGMP, VLAN, QoS, Security, IPv6, bandwidth control, port mirroring, cable diagnostic and Green Ethernet.

Standard data	IEEE 802.3 10Base-T, 802.3u 100Base-TX a 100Base-FX
Protocol	CSMA/CD
Interface	Optical - HMA 62.5/125 µm or 50/125 µm MM optical cable 9/125 µm SM optical cable
Certification	EMC CE, EMI FCC Part 14 Subpart B Class A, CE EN55022 Class A
Wavelength	MM: 1300 nm, SM: 1310 nm, 1550 nm
Distance	MM optical cable, full duplex: 2 km SM optical cable, full duplex: 10, 30, 50, 80 or 120
Environmental	Fulfils MIL-STD 810E
Temperature	operating -40 °C to +75 °C storage -40 °C to +85 °C
Humidity	5 % to 95 %
Mechanical	Fulfils MIL-STD 810E, IP 63 protection
Power supply	10 to 15 V DC, Optional powerpack
Dimensions	204,5 x 82,5 x 174,5 mm (W x D x H)

### LMR-15 - Light Mobile Ruggedized Router

The LMR-15 is a rugged Cisco IOS-managed mobile router designed for use in harsh environments—offering reliable operation in extreme temperatures and under shock and vibration conditions typical for mobile applications in rugged terrain.

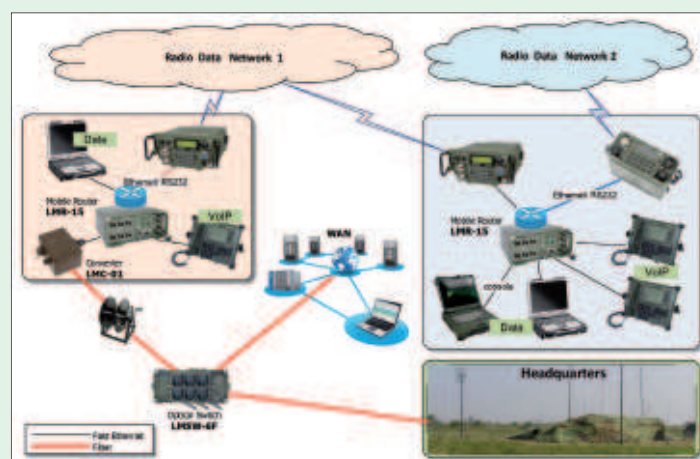


The router offers high performance, five Fast Ethernet interfaces (two routed and three switched), and a rich Cisco IOS Software feature set, providing investment protection for customers deploying bandwidth-intensive applications in mobile

or embedded networks in mobile, airborne, ground, manned or unmanned vehicle and sensor applications.

### Key Features:

- Robust compact design resistant to harsh environmental conditions and rough handling
- Two routed combo ports Fast Ethernet/ Serial line RS232 and three switched Fast Ethernet interfaces
- Onboard hardware acceleration
- High performance in a small form factor
- Cisco Mobile Ready Net with Self-forming temporary ability
- Sophisticated networking capabilities such as quality of service (QoS) to ensure the most important data gets through when links are degraded
- Security to protect the network and the data transmitted over the network
- Remote voice services with Cisco Unified Communications
- Manager Express (Cisco Unified CME) supports up to 48 phones for remote IP telephony
- Streaming multicast video support
- Input power 10-30 VDC (optional power pack)



Picture – How to use LMSW-F6 and LMR-15.B

### LM-VCG Voice Communication Gateway

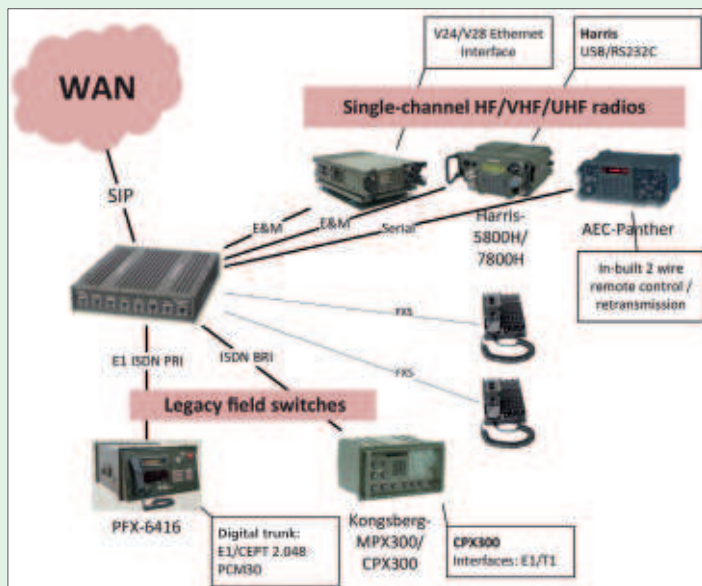
LM-VCG Voice Communication Gateway (VCG) provides a voice gateway between VoIP networks, legacy and radio networks. The VCG enables switching a radio from receive to transmit (PTT function) as well as setting up the basic parameters of the radio, from an IP phone (channel, operation mode, selective dialing, etc.) The VCG also provides a gateway to voice networks using standard analogue and digital voice interfaces.



### Services:

- VoIP services with support of SIP and IAX protocols
- Interfaces to and integration of digital and analogue
- Telephone systems
- Automatic access to radio networks
- Radio access control via RS-232 or Ethernet interface
- Proprietary radio management SW with broad spectrum of configurable functions and option to be customized to the specific radios of a customer
- Remote GUI based management for a user friendly control of the radio communications and configuration of the VCG

- Configurable interconnection between all voice pnterfaces
- QoS, IEEE 802.1q, IEEE 802.1x support, SNMP support



### LMSB-14.1 Ruggedized Switchboard

(This devices was developed with support of MPO)



The LMSB-14.1 introduces a ruggedized PBX – switchboard designed for use in harsh environmental conditions. It offers VoIP (Voice over IP) services for IP phones connected to the internal

switch data ports and analogue phone sets connected to FXS ports. The LMSB-14.1 can be connected to tactical network based on optical fibers cable via up-link port, which is equipped with HMA Expanded Beam connector.

The HMA Expanded Beam technology preserves all advantages of signal transmissions through optical lines in harsh environmental field conditions. The LMSB-14.1 includes a microprocessor board with PBX software. The PBX server is based on SIP standard (Session Initiation Protocol), which can handle more than 30 simultaneously VoIP connections. There are two FXS cards on the microprocessor board for connection analog phone sets via connector on front panel in basic LMSB-14.1 configuration. The IP phones can be connected to 6 LAN ports, 4 of them are able to provide PoE 802.3af to connected devices. The others IP phones would be connected to switches used in overall LAN installation. The total number or phones in the PBX network is about 300.

The PBX board is connected to internal switch, fiber optic uplink port is used for integration into higher level communication network. Power supplying of LMSB-14.1 can be ensured from any DC source 10 – 36 V. The LMSB-14.1 switchboard can be mounted into vehicle as well as deployed on stationary workstation.

<b>Optical Interface</b>	Connector	2x HMA-J <sup>2</sup>
	Cable type	MM: 62.5/125 µm, 50/125 µm or SM: 9/125 µm
	Data rate	1000Base-FX
	Wavelength	MM: 1300 nm, SM: 1310, 1550 nm
<b>LAN Interface</b>	Connector	6x RJ-45
	Data rate	2x 10/100/1000Base-TX, 4x 10/100Base-TX

	Cable	10Base-T Cat. 3, 4, 5, UTP, 100/1000Base-TX Cat.5, 5e or higher
<b>Console</b>	Connector	1x RJ-45 – serial line
	Data rate	RS232 up to 256 kbps
<b>Subscribers interface:</b>	Subscriber lines	2x FXS or analog fax
	Number of channels	30 at once
	Conference call	Yes
	VoIP lines	Yes

### Mechanical parameters:

Temperature	Operating: -35 °C to +70 °C Storage: -40 °C to +85 °C
Environmental	Fulfils MIL-STD 810G
Mechanical	Fulfils MIL-STD 810G, IP 63 protection
Power supply:	DC 10 – 36 V DC AC 110/230 V AC, on request
Dimensions (box)	430 x 260 x 65 mm (W x D x H)

### UPS-08-24V - Uninterruptible Power Supply

Military-Grade Uninterruptible Power Supply UPS-08-24V unit is designed for the extreme environmental and demanding electrical conditions of military ethernet switches. OPTOKON's UPS-08-24V features a proven design and rugged packaging technologies of OPTOKON switches LMSW series. The electronic



circuitry and battery are contained in a sealed chamber constructed from a die cast aluminum chassis that is weather-proof and shock-proof. This UPS will accept a wide range of input voltage values while delivering a well-conditioned 24 VDC output to the ethernet switch. Highly efficient power electronic circuitry achieve a high power level and battery run-time in a low-profile, low-weight, rack-mountable package.

Its use of LiFePO<sub>4</sub> batteries permits the lowest profile and lowest weight solution in its power class. LiFePO<sub>4</sub> is a very safe technology, not spontaneous combustion, does not react with moisture or with oxygen. There is no self-discharging effect. Can be recharged at any state of discharge – has no memory effect.

### Features:

- Input 10 – 30 VDC, Output 24 VDC (may be customized)
- Capacity 24V / 20Ah
- Built in battery test function, Protective and balancing circuit
- Relay alarm outputs, DC bus OK, Battery discharge, Battery fail
- Battery low voltage disconnect (LVD)
- Voltage monitor with digital display for easily measuring battery parameters.
- Operating temperature -25°C - 60°C (discharging)
- Weight: 8 kg
- Dimensions: 430 x 300 x 65 mm (W x D x H)

The UPS-08-24V has the rack adapter as accessories. A LAN communication/control port is available as an option to permit monitoring and control by a remote computer system.

We hope that this contribution to the comprehensive solution of tactical LAN helps system architects to design a simple and flexible solution of military networks.

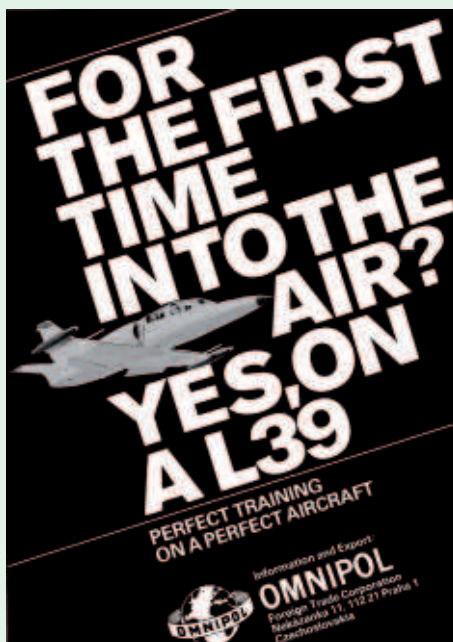
**Milan Šnajder**  
Director of RDIC in OPTOKON, a.s.

## OMNIPOL Introduces New L-39NG – Training System for Modern Air Forces

*Omnipol, the largest Czech system integrator and supplier of defence and military systems since 1934, has many experiences in exporting Czechoslovak-produced aircraft. Until 1990, Omnipol was, besides others, the exclusive exporter of L-29, L-39, and other aircraft types, and it successfully exported over 9,000 aircraft to many countries all over the world. Today, the company builds on this rich history in a new project – Omnipol became a strategic sales partner with AERO Vodochody AEROSPACE in the L-39NG program.*

In the field of jet trainers, more than 3,400 aircraft are in operation all over the world, this number including primary and advanced training and light attack aircraft. But their average age varies from 24 years in Europe to 36 years in Africa. Many current training aircraft are obsolete, their analogue cockpits do not allow preparation for operation of tactical aircraft and the aircraft require general modernization. Even in the optimistic view, over 50 % of training aircraft fleet in the world will be withdrawn from service within 15 years, which makes an opportunity for a modern and effective solution: L-39NG.

L-39NG (Next Generation) is a new jet trainer developed in AERO Vodochody AEROSPACE, the largest aerospace manufacturer in the Czech Republic. Aero relies on the tradition and experience in the development and successful training aircraft in the history, is a forerunner of the new type. L-39NG inherits the greatest production of military aircraft, such as L-29, L-39, L-59 and L-159. The legendary L-39 Albatros, most advantages of the Albatros – ability to operation in all climatic condition, excellent maneuverability and great aerodynamic concept, which made it one of the most popular aircraft among



**Launching of L-39 Albatros in 1970' by Omnipol**

both military and civil users. There is no better proof of the agility and reliability of L-39 than that it was chosen for performance by 15 aerobatic teams.

However, the new aircraft presents more than just tradition. With latest technologies and equipment, L-39NG offers unified, comprehensive training system for modern air forces. Thanks to single engine conception, fully implemented condition based maintenance (including full service concept "support by the hour" for selected components like engine) and high modernity components, the L-39NG has unprecedented efficiency along with minimal maintenance.

Power is provided by the highly modern FJ44-4M engine supplied with the TAP Blue

engine support system to ensure unprecedented airworthiness and predictable maintenance costs. The aircraft's avionics are prepared to train future pilots of 4<sup>th</sup> and 5<sup>th</sup> generation aircraft, and can be tailored to the customer's requirements to a great extent. The L-39NG is equipped with five mounting points for weapons. The aircraft also features a broad range of simulation technologies including integration into high-tech tactical simulation centers with the goal of increasing training effectiveness.

The last but not least advantage of the L-39NG project is that it is designed in two development steps. The first step, integration of FJ44-4M engine and avionics engine into existing L-39, was completed in September 2015 by the first flight of the technological demonstrator. The second step is development and production of brand new L-39NG. The goal of Omnipol is to offer current L-39 operators re-engining and optionally installation of the new avionics to their L-39 and once the end of service life of the original L-39 airframe is reached, the FJ44-4M engine and the avionics previously acquired by the customer can be used on a brand new L-39NG airframe.

Omnipol is commercially active in over sixty countries worldwide, a significant portion of which operates L-39 aircraft. Existing sales and service network of the company will provide the customers of L-39NG with perfect care and best solutions for their requirements. First completely new L-39NG aircraft should be delivered in 2019. Omnipol and Aero are convinced L-39NG exactly complies with the high demands of modern training aircraft and it will meet requirements not only of current L-39 operators, but also of entirely new customers.

For more information see: [www.L-39NG.aero](http://www.L-39NG.aero)  
**Jiří Škrabal, marketing director**



**The new L-39NG**



**Breitling's L-39 Albatros displayed in Bogota during Expodefensa show in 2015**

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## RF40 Tactical Communication System



**RF40**

Czech tactical radios manufacturer MESIT defence (ex-DICOM) launched a new multiband secure tactical radio system at IDEX 2015 Defence Show held in Abu Dhabi. Codenamed RF40 Thoroughbred, the system won a great attention from visitors, military professionals and media being one of the few available systems incorporating dual channel handheld radio with versatile mission module and bandwidth saving true MANET networking waveform usable in both VHF and UHF bands and narrowband, wideband and broadband multichannel voice and data communication capabilities in a handheld form factor.

While the previous two systems (RF13 and RF20) remain in MESIT defence's product portfolio, the RF40, besides maintaining full backward compatibility in basic and advanced modes with them, adds many additional attractive features to widen the company's offering with the current trends in tactical radio communications. The RF40 system is based on the philosophy that combines proven secure technology with frequency hopping along with transmission security with the current trend focusing on high-speed data transfers and multi-channel solutions.

Building on a tradition of robust and reliable secure narrowband voice and IP data modes of its predecessors, the systems adds wideband data transfer capabilities and multi-channel solutions introducing a new true-MANET waveform, operating in bandwidth saving channel of 250 kHz and usable both in VHF and UHF frequency ranges. This waveform marked as WF40 has been developed with a view of reaching high data rates in all available frequency bands and retaining

good communication ranges in real-life battlefield conditions with assured communication security. Other features of the waveform comprise of an ad-hoc network topology with multiple rebroadcasting capability, automatic background dissemination of position location information (PLI) gathered from three navigational systems (GPS, Galileo and Glonass), two voice plus one data virtual channels within one physical radio channel, AES block cipher etc.

The core of the RF40 system consists of a handheld multiband radio (30-512 MHz) with output power of up to 10 W, expandable with a Mission Module, accommodating broadband communication module for L-band or S-band making it a fully fledged two-channel handheld radio. Optional module for communication over satellite is also available. The radio itself features also the option of a simple cable connection to the main types of globally used tactical radios forming a cross-bridge networking solution with different waveforms, encryption technologies and properties.

Beside a basic handheld version a vehicle-mounted variant is secured with the VA40 compact amplifier with an output power of 50 W, into which the RF40 transceiver is docked in a simple way (supporting jerk-and-run). The amplifier may be optionally fitted with an efficient co-site filter and another amplifier for the L-band/S-band broadband channel.

The RF40 system is an ideal advanced solution for tactical communication from squad to battalion level of command.



**VA40**

[www.mesitdefence.cz](http://www.mesitdefence.cz)

## DEFENCE SERVICES ASIA 2010

*The DSA (Defence Services Asia) international exhibition of military ground, air and naval equipment and systems for internal security, which takes place in Malaysia's capital Kuala Lumpur, has recently been the principal venue for presentations of Czech defence and security companies. The 12<sup>th</sup> DSA was held on April 19 to 22, 2010, and was attended by 830 exhibitors from 42 countries, including 18 Czech companies grouped at an official national stand of the Czech Republic.*



Since 2006, the DSA exhibition has been regularly attended by more than 10 Czech companies, and this year's number of Czech exhibitors is the highest so far. The total number of exhibitors also set a new record. However, the number of both visitors and official delegations was, to some degree, affected by air traffic problems caused by an eruption of an Icelandic volcano. Flights from Europe started being cancelled before the scheduled opening of the exhibition, and many visitors and exhibitors simply did not have a chance to get to Malaysia during the event. Most European delegations, including the official delegation of the Ministry of Defence of the Czech Republic, had to cancel their trips. The above complications notwithstanding, the exhibition was attended by 22,740 visitors from 58 countries and official delegations from 39 countries.

For the first time, the Czech Republic's participation was organized under the auspices of the CzechTrade agency and the Czech Chamber of Commerce, and the interest exceeded all expectations. The companies offering their products and services included AVEC CHEM Pardubice, ČESKÁ ZBROJOVKA Uherský Brod, DICOM Uherské Hradiště, E-COM Slavkov u Brna, EGO Zlín, ERA Pardubice, EVPÚ DEFENCE Uherské Hradiště, GUMÁRNÝ Zubří, LANEX Bolatice, MESIT PŘÍSTROJE Uherské Hradiště, NOVITEX Humpolec, OMNIPOL Praha, POLIČSKÉ STROJÍRNÝ Polička, REAL TRADE Praha, TATRA Kopřivnice, URC SYSTEMS Prostějov, VOP 025 Nový Jičín and ZEVETA AMMUNITION Bojkovice. The Czech Embassy in Malaysia also played an important role in the successful presentation of the Czech defence and security industry at the exhibition. The main topics of this year's DSA exhibition

were "medical care in the field", "internal security" and "protection against chemical, biological, radiological and nuclear (CBRN) weapons". These were the issues that the conferences and attractive demonstrations accompanying the conference were focused on. A well-proven element of the event is also a so-called purchase information centre which provides exhibitors with valuable information, not only on business opportunities of products they offer, but also on import regulations and procedures in force in the region of southeastern Asia.

The event's focus on security systems was also a dominant topic of many Czech exhibitors. Visitors were interested mainly in systems of protection against biological contagions presented by EGO Zlín and OMNIPOL Praha, CCTV security systems by EVPÚ DEFENCE Uherské Hradiště, or protective items offered by AVEC CHEM and GUMÁRNÝ Zubří. As usual, the stand of ČESKÁ ZBROJOVKA with a broad port-

folio of small firearms was attracting a lot of attention.

From the viewpoint of current business opportunities, Malaysia is one of the most attractive territories for suppliers all over the world, as confirmed by an announcement of the Malaysian Ministry of Defence according to which the country signed defence contract to the tune of more than USD 3 billion during the exhibition. Moreover, Malaysia has recently been, due to its political and economic stability, a country of choice for long-term business plans of European manufacturers in the region of southeastern Asia, and there have already been several press releases announcing the establishment of joint ventures between European and Malaysian companies.

(Revue 2/2010)

CDIS Review

The Media Partner of Czech participation at this Exhibitions was company





## DEFENCE SERVICES ASIA 2012

The DSA (Defence Services Asia) exhibition, which was held for the thirteenth time between April 16 and April 19, 2012, in the Malaysian capital of Kuala Lumpur, once again proved its essential importance for the region of Southeast Asia.



Although many companies reduce their budgets, the number of exhibitors increased again, exceeding 800 – all in all, there were

850 exhibitors, including 595 foreign companies from 47 countries of the whole world. Even other pieces of statistical information are worth mentioning; over 40,000 m<sup>2</sup> of occupied area, 28 national stands (including the Czech Republic and Slovakia), 27,000 visitors from 58 countries representing all continents, 280 official delegations from 35 countries among which, however, the Czech Republic was unfortunately missing. More than 400 accredited journalists took care of substantial worldwide promotion of the event, whose dynamic nature matches the economic development of the region. A rich accompanying programme emphasized current requirements of Malaysia and other countries of the region, which focus mainly on national security, "military" and "security" medicine, international innovations and industrial cooperation. The Malaysian Ministry of Defence demonstrated it meant business



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and that its interest in defence products was neither token nor "indicative" by signing contracts with an aggregate value in excess of USD 115 million during the exhibition. The forthcoming replacement of Malaysia's ageing fleet of MiG-29 combat aircraft significantly boosted up marketing activities of "traditional" global rivals, including Eurofighter Typhoon, Dassault Rafale, SAAB Gripen NG and F/A-18F Super Hornet. Compared to the previous event, the number

of Czech companies participating in the exhibition grew as well, to 20, including AVEC CHEM Pardubice, CZECH TRADE Praha, ČESKÁ ZBROJOVKA Uherský Brod, DICOM Uherské Hradiště, EGO Zlín, ERA Pardubice, EXPLOSIA Pardubice, IDOPS CZ Brno, LANEX Bolatice, MEOPTA SYSTEMS Přerov, MESIT PŘÍSTROJE Uherské Hradiště, NOVITEX FASHION Praha, OMNIPOL Praha, OPTOKON Jihlava, POLIČSKÉ STROJÍRNÝ Polička, PROTOTYPA Brno, SILK & PROGRESS Brnenec, SVITAP J.H.J. Svitavy,

URC SYSTEMS Prostějov and ZEVETA Bojkovice. While TATRA Kopřivnice was not on the list of official exhibitors, a spit-polished T-815 6x6 truck dominated the stand of its present regional agent, Destini Berhad. A collective national stand of all Czech exhibitors enjoyed a very attractively location, and particularly the exhibits of Česká zbrojovka Uherský Brod, Meopta Systems and EGO Zlín drew a lot of deserved attention of many visitors. Malaysia and other countries of Southeast Asia are potentially a very attractive market for Czech manufacturers; most of the companies presenting themselves in Malaysia this year have been active in the region for some years, and their activities have already brought tangible results in the form of contracts. The participation of the Czech Republic in the DSA 2012 exhibition had been organized with a substantial assistance from the Economic Chamber of the Czech Republic and the Defence and Security Industry Association of the Czech Republic; the Embassy of the Czech Republic in Malaysia also played a significant role in the successful participation.

CDIS Review 3/2012

The Media Partner of Czech participation at this Exhibitions was company



## DEFENCE SERVICES ASIA 2014

*The most important exhibition of military and security technologies in Southeast Asia, Defence Services Asia (DSA), confirmed its status again this year. It was hosted for the fourteenth time by the Malaysian capital, Kuala Lumpur, from April 14 to April 17, and the organizers claim that this year's exhibition was again a record-setting event. According to official statistics, there were 1,000 exhibitors from 50 countries, 33,500 visitors from 77 countries, 344 members of official delegations from 45 countries, 729 accredited media representatives and 800 VIPs from the host nation, six of them from the royal family. All the statistical parameters listed above surpass those achieved in 2013 by at least 20 %; given the capacity of the Putra World Trade Cen-*

*tre, it seems that the event has reached its maximum limits.*

The Czech Republic was again one of the 28 countries having their own national stands at the exhibition. The offer of participation co-sponsored by the Czech Ministry of In-

dustry and Trade was made use of by 80 companies, including ALP ARMY Nový Knín, AVEC CHEM Pardubice, B.O.I.S.-FILTRY Brno, ČESKÁ LETECKÁ SERVISNÍ Praha, Česká zbrojovka Uherský Brod, DICOM Uherské Hradiště, ERA Pardubice, GUMÁRNÝ ZUBŘÍ, LANEX Bolatice, LEMAX Praha, MEOPTA



SYSTEMS Přerov, MESIT PŘÍSTROJE Uherské Hradiště, OMNIPOL Praha, OPTOKON Jihlava, ORITEST Praha, POLIČSKÉ STROJÍRNÝ Polička, PYRO-TECHNOLOGY Bojkovice (formerly ZEVETA AMMUNITION) and SELLIER & BELLOT Vlašim. Just like on previous occasions, TATRA Kopřivnice was not listed among official exhibitors, but its T-815 6x6 custom-designed for the Malaysian army dominated the stand of TATRA's current regional representative. In terms of its area, which was 156 m<sup>2</sup>, the Czech Republic's stand ranked among larger ones and, thanks to its very attractive location, it drew a lot of attention of many visitors, including members of official delegations, who were interested mainly in the displays of OMNIPOL and its partners and Česká zbrojovka Uherský Brod. Unlike in previous years, the event was also attended by a delegation of the Ministry of Defence of the Czech Re-

public led by Deputy Minister Tomáš Kuchta. The Czech Republic's embassy in Malaysia also played a major part in this year's successful participation of the Czech Republic.

The traditionally rich accompanying programme included a number of conferences and workshops focusing on current requirements of Malaysia and neighbouring countries, such as national security (including cyber security), humanitarian aid and disaster relief operations, protection against CBRN attacks and, last but not least, expanded regional cooperation.

CDIS Review 2/2014

The Media Partner of Czech participation at this Exhibitions was company

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## OPTOKON ACTIVE DEVICES

OPTOKON NATO SUPPLIER CODE: 1583G

### LMSW-10 SERIES RUGGEDIZED FIELD SWITCH

CZECH ARMY TECHNICAL SPECIFICATIONS: TP-LMSW10-OPT01-00



- 2 fiber optic ports, 8 UTP ports, 2 FXS ports
- PoE – Power over Ethernet
- backup battery - 4 hours operation
- complies with STANAG 4643 standards

### LMSW-08 SERIES RUGGEDIZED FIELD SWITCH



- 2 fiber optic ports, 6 UTP ports, 2 FXS ports
- complies with STANAG 4643 standards

### LMSW-04 SERIES RUGGEDIZED FIELD SWITCH



- 2 fiber optic ports, 4 UTP ports
- PoE – Power over Ethernet

### LMSB SERIES COMMUNICATION NODES



- LMSB-series CIM COMM ALL
- Communication and Information Module

### LMC SERIES COMPACT MEDIA CONVERTERS

- 10/100/1000 Mbps data transmission
- FO connectivity up to 2 km for MM, 80 km for SM
- MIL-STD tested



Czech Army  
Technical specifications:  
TP-OPT-1981-2004

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### WORLD CBRN & MEDICAL CONGRESS

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- Strategic and Comprehensive CBRN Defence – CBRN Protection, WMD/CBRN Threats
- WMD Disablement, BMD, Cyber Defence
- Civil-Military Cooperation on CBRN Defence
- R&D, CBRN Medical Countermeasures, Force Health Protection

### CBRN WORKSHOP

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PVA EXPO PRAGUE, CZECH REPUBLIC

- Civil-Military Cooperation in Context of WMD/CBRN Defence Protection
- WMD/CBRN Threats – Terrorism, Cyber Defence in Context of Critical Infrastructure Protection, TIC/TIM, CBRN Reach Back
- Use of Robotics, Drones, New R&D Projects

### MEDICAL WORKSHOP

20 - 21 OCTOBER 2016

PVA EXPO PRAGUE, CZECH REPUBLIC

- CBRN Medical Countermeasures in Toxicology/Pharmacy, Innovations, Antidotes
- Nanotechnology – Potential New Threats
- Evacuation Principles and Chain for an Affected Patients from Field
- Biological Agents Evaluation for a Medical Operational Impact

### MILITARY ADVANCED ROBOTIC SYSTEMS CONFERENCE

20 - 21 OCTOBER 2016

PVA EXPO PRAGUE, CZECH REPUBLIC

- Future Threats, Challenges and Opportunities of Advanced Robotic Systems
- Autonomous Systems and Robotic Swarms – R&D and Future Application
- Modelling and Simulation of Intelligent Systems – AI

### LOGISTICS CAPABILITY WORKSHOP

20 - 21 OCTOBER 2016

PVA EXPO PRAGUE, CZECH REPUBLIC

- National and International Views on Future Development of Logistics and Related Technologies
- Joint Logistics Support Group (JLSG)
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# Enforce Tac 2016 in Nuremberg: The Place to be for Security Experts in a Time of Growing Challenges 2. – 3. March 2016

## ENFORCE TAC

by IWA

Events around the globe in 2015 have opened the broader public's eyes to how the challenges facing government security officials have grown. An almost unprecedented influx of refugees and the threat posed by international terror groups are making the police, judicial and customs authorities and the armed forces rethink their staffing, but, above all, pay more attention to adequate training and better equipment. The specialised exhibition Enforce Tac, which will take place for the fifth time on 2 and 3 March 2016 at Exhibition Centre Nuremberg, will bring

together manufacturers, official agencies and institutions whose job is to keep us safe.

For security experts working for official agencies to do their job, they need security equipment and arrest and access techniques to be up to date and emergency services provided with the best-possible protection against fatal injuries. Exhibitors at Enforce Tac showcase the latest developments in guns and ammunition for official agencies, ballistic accessories, optics and optronics, IT, electronics and communications, automotive technology, first aid, tactical equip-

ment and uniforms every year in Nuremberg for this reason.

For more information contact the Official Representative for NürnbergMesse GmbH in the Czech Republic, Mrs Nadia Lichte, phone: +420 775 663 548, [info@proveletrhy.cz](mailto:info@proveletrhy.cz), [www.proveletrhy.cz](http://www.proveletrhy.cz)

Tickets for the show you can order here: [www.proveletrhy.cz](http://www.proveletrhy.cz)

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Law Enforcement, Security and Tactical Solutions

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## ENFORCE TAC

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Informace:  
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[info@proveletrhy.cz](mailto:info@proveletrhy.cz)

Vstup pouze osobám starších 18 let.  
Pouze pro odborné návštěvníky,  
nutno předložit legitimaci.

NÜRNBERG MESSE

# PFISTERER's CrossPower Gets off to a Flying Start

## SMART ENERGY FOR NATO FORCES: A MILESTONE IS REACHED IN LITHUANIA

*On 4<sup>th</sup> February, a memorable event in Lithuania organised by the Vilnius-based NATO Energy Security Centre of Excellence (NATO ENSEC COE) marked a milestone in the development of PFISTERER's new CrossPower energy-management system, which is designed to foster energy efficiency by reducing dependence on fuel in civil and military camps.*

During an official handover ceremony at the Lithuanian Grand Duke Vytenis Main Support Logistics Battalion in Marijampolė, the PFISTERER CrossPower system was formally transferred from NATO ENSEC COE to the Lithuanian Armed Forces, making Lithuania the first NATO member to benefit from this intelligent mobile energy-management system, which uses both alternative energy sources, such as solar and wind energy, and conventional diesel generators.

The handover ceremony was the culmination of 14 months of intensive work that had begun following the announcement in November 2014 by NATO ENSEC COE of a call for tenders for a mobile hybrid power generation system which was won by the German-Swiss company PFISTERER.

Senior Advisor Martin Schuster from PFISTERER,

who has been closely involved in each phase of the system's development, opened his much-appreciated presentation of the product with the words: "This day is a starting point for us."

COL Bagdonas said: "Today's event marks a new page in our Centre's history. I am very glad that we, along with Canada, can contribute to strengthening NATO and the Lithuanian Armed Forces. This System is very modern equipment that will allow us to gather all the research data and improve energy efficiency in all allied countries. We are very happy to have realised this project with German colleagues and German industry."

### Outlook

The ground-breaking PFISTERER product, designed for civil and military use and equipped with an intelligent control system that strikes an optimum balance between power generation and consumption and has powerful battery storage to ensure network stability, will be run by the Lithuanian army under the name of HPGS (deployable modular Hybrid Power Generation and management System). It will serve as a test ground for NATO and its nations by providing them, through NATO ENSEC COE, with valuable data from military installations as well as from the upcoming NATO/multi-nation exercises in which the system is to be utilised.

The PFISTERER system will thus bring allied for-

ces closer to meeting the smart energy objectives that all NATO nations are now committed to contributing to. According to LTC Nicolas Henry, Deputy Director of NATO ENSEC COE, a first report on the system in use is awaited at the end of the year.

The system was designed and developed by PFISTERER and built in cooperation with the following partners:

- ads-tec GmbH: Battery and energy-management system
- KIRSCH GmbH: Generators
- Multicon AG & Co.KG: PV system
- Smart Power Electronics GmbH & Co.: Antaris wind turbines

### Technical details:

The complete system, including the batteries, two diesel generators, a wind turbine and deployable solar panels can be housed in two 20' ISO containers and transported on standard trucks. PFISTERER's pluggable terminals allow fast on-site assembly without the need for qualified personnel. Even when operating the system is fully autonomous and can be maintained remotely if needed.

HPGS: 2500 KWh/day  
 Battery: 100 KWh storage, 150 KW (peak load)  
 Wind turbine: 6,5 KW  
 Generator: 2x75 KW

Hartmuth Bühl

# 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 1<sup>st</sup>, 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 EC countries.

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



**EXPLOZIA a.s.**  
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# Meprolight Reveals Unique Fiber and Tritium Circle-Dot Sight for Pistols

*Meprolight – a leading manufacturer of electro-optical systems, thermal and night vision equipment, and Self-Illuminated sights for military, law enforcement and civilian applications – will unveil its unique fiber and tritium Circle-Dot sight for pistols at SHOT Show 2016. Expanding its MEPRO FT family of fiber-optic and tritium sights, the company will also introduce a new 2-Dot sight. Both these sights will be available in the US market in the second quarter of 2016.*

## MEPRO FT – Circle-Dot Sight



luminance guarantee.

This groundbreaking new sight is the only one of its kind in the world, requiring a rear sight only. Enabling quick, easy, and accurate target acquisition, it provides a bright green or orange circle and a dot for day or night shooting. The sight picture simulates reflex sights, with a very low sight profile, which fits to any standard holster. Always ready for action, it has no batteries, no switches, and comes with a 12-year luminance guarantee.

## MEPRO FT – Two-Dot Sight

Enabling easy target acquisition using a regular two-dot rear sight and a one-dot sight at the front, it can be quickly adjusted for windage with the new



wrench retaining system. Shooters can use the sight with both eyes open, with or without corrective lenses. The sight delivers a high level of accuracy, with 24/7 (day and night) aiming dots. It has a low profile and a very simple installation process. Available in either green or orange color, it comes with a 12-year luminance guarantee.

Both sights will be available for Glock and Springfield pistols first, with additional brands and models planned for later release.

According to Amir Karo, Director of Sales & Marketing, “We are pleased to announce the expansion of our portfolio of sights for pistols. We continue with our ongoing R&D efforts in order to offer our customers the latest high-end technology with proven results. The MEPRO FT family is an intuitive low-profile aiming solution that facilitates quick, instinctive, and accurate shooting day or night. The combination of fiber and tritium technologies allows us to reach a very high brightness level. The new sights are easy to install, and enable simplified zeroing using their Left/Right adjustment.”

# Aero Completes Training of the First Iraqi Pilots

*On Tuesday, February 9, 2016, the first group of Iraqi Air Force pilots completed their training on the L-159 aircraft as part of a contract between AERO Vodochody AEROSPACE a.s. and the Iraqi Ministry of Defence.*

The graduation ceremony for the first fully-qualified L-159 pilots took place in Vodochody and was attended by Deputy Commander of the Air Force of the Republic of Iraq Lt-General Faris Hassan Al Zireg Falah, Commander of the Iraqi Air Force Operations

Centre Brig Abdulwahab Hussein Hussein Lutfe, Deputy Chief of the Training Department for the Iraqi Air Force Brig Ali Abdullah Al Lami Abdulkareem, His Excellency the Ambassador of the Republic of Iraq in the Czech Republic Mr. Walid Hamed Shiltagh, Minister of Defence of the Czech Republic Mr. Martin Stropnický, Commander of the Czech Air Force Brig Libor Štefánek, representatives of Aero, and a number of invited guests.

Participation by representatives of the Iraqi Air Force high command is evidence of the importance of

this project for that country. This contract is also significant for the entire Czech aviation industry, explained AERO Vodochody AEROSPACE a.s. president Ladislav Šimek: “For Aero and Czech aviation as a whole, it’s another significant milestone that demonstrates the capabilities of the local aviation industry in a highly competitive environment to provide customers with quality comprehensive services ranging from the delivery of aircraft to providing operations support, training, and other related services. We are very pleased the Iraqi Air Force has chosen our aircraft during this difficult time, and we are confident that they will be satisfied with them. The delivery of the first aircraft to Iraq, peaking today with the completion of pilot training, is a clear signal of interest in our aircraft, which are a highly effective platform capable of fulfilling a wide spectrum of tasks for modern air forces.”

The celebratory moment was preceded by a presentation on the company’s capabilities and an introduction to the L-159 family of aircraft. Aero signed the contract with the Iraqi Ministry of Defence for the delivery of L-159 aircraft in 2014 after several years of negotiations. Aero made the first delivery at the end of last year; the company will deliver a total of ten single-seat L-159A and two two-seat L-159T1 aircraft. The contract with the Iraqi Ministry of Defence represents a significant stage in the life of the L-159 aircraft as it moves into active deployment with its second military user.



# Aero and Omnipol Sign Partnership Agreement for the L-39NG Project

**AERO Vodochody AEROSPACE a.s. and OMNIPOL a.s. have signed a strategic partnership agreement regarding L-39NG aircraft sales. In the new agreement, Omnipol becomes Aero's strategic sales partner for selected territories.**



For both companies it's a return to their historical roots - until 1960, Omnipol was the exclusive exporter of L-29, L-39, and other aircraft types, and it successfully exported over 9,000 Czechoslovak-produced aircraft. Ladislav Šimek, president of AERO Vodochody AEROSPACE, is certain this cooperation will lead to a significant increase in the sales potential of the L-39NG aircraft. "Given the fact that the L-39NG is the largest Czech military project of this century, it's perfectly logical that the largest Czech producer of aviation and military technology would work together with the largest Czech dealer in military equipment. Our partner Omnipol is active commercially in over sixty countries worldwide, a significant portion of which operates L-39 aircraft," added Šimek.

Omnipol CEO Michal Hon also sees the great

potential of working together on the L-39NG project: "By expanding the spectrum of products and services we offer with the L-39NG-based training solution, we can now provide air forces around the world with a comprehensive package of services for training and tactical aviation, as we already complete logistics operations, for aviation as well as air defence and ground forces, for a number of our existing customers. The L-39NG is an extremely valuable export commodity for us. The aircraft has no direct competitor in its market segment, and furthermore, the worldwide fleet of training aircraft is due for a massive upgrade in the very near future." The two companies will reveal the exact extent of the partnership at the Farnborough International Air Show in July of this year.

The L-39NG aircraft represents the most modern type of trainer produced by Aero, developed to offer air forces a technologically advanced alternative to operationally demanding and, for a wide variety of training tasks, inefficient competitive training types of the last generation. The L-39NG technology demonstration model with a new engine and avionics was flown in September 2015. The prototype of the newly-produced L-39NG aircraft, which will draw on the technological solutions proven on the demo model, should be ready to fly in September 2017. For existing users of the L-39, the transition to the L-39NG is conceived as a two-step process starting with upgrading existing aircraft with the new engine and optional avionics, followed by the transition to the entirely new L-39NG.

# AURA's Codification Software Will Be Used also by the Swedish Armed Forces

**A joint offer of the Czech company AURA, s.r.o. (Ltd) and Swedish Saab AB (publ.) won the public tender for NATO Codification System (NCS) compliant software for the Swedish Defence Materiel Administration (Försvarets Materielverk - FMV). FMV plays a role of the National Codification Bureau (NCB) in Sweden. The implementation of MC CATALOGUE codification software developed by AURA will start at the Swedish NCB in spring 2016.**



AURA and Saab concluded a long-term teaming agreement for co-operation in the area of informa-

tion systems for military logistics. Both parties have agreed that MC CATALOGUE and related services will be applied by Saab when offering its NATO Codification Solution to the Swedish Armed Forces and, possibly, to other nations' armed forces. Likewise, AURA shall become Saab's exclusive partner for codification area in Sweden.

AURA develops and implements information systems for military logistics and it is successful in exporting the highly sophisticated information system MC CATALOGUE for materiel codification in compliance with NCS standards. MC CATALOGUE alongside other related services are currently employed by armed forces of fifteen NATO and non-NATO nations on five continents. Saab has expertise in the design, development, operation, analysis and optimization of complex system-of-systems support solutions to Swedish and international defence and security customers. Saab has an extensive national and international marketing and sales network covering defence and security markets.

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# MILIPOL 2015 Exhibition in Paris

Official key figures of Milipol Paris 2015 has been unveiled:

- Under the patronage of the French Ministry of Interior, founded in 1984
- 949 exhibitors from 55 countries were present
- 24,056 trade visitors from all over the world (143 countries were represented and 45 % of professionals from outside France) came to the exhibition
- The show welcomed 115 official delegations from 77 countries
- 25 conferences have been organised throughout the four days of the exhibition, with 55 speakers and 700 participants
- 358 journalists from 22 countries
- The world's largest specialist homeland security exhibition
- Next edition: 21 - 24 November 2017



## Reflections of the MILIPOL 2015

Just a few days after the tragic events of November 13, from November 17 to November 20, Paris hosted the 19<sup>th</sup> MILIPOL worldwide exhibition of internal state security, a bi-annual event the venue of which is the Paris Nord Villepinte Exhibition Centre. The exhibition was

attended by 949 exhibitors from 55 countries, 24,056 visitors from 143 countries, and 115 official delegations from 77 countries. Some of the Czech participants have shared their impressions and successes with us:

### EVPÚ Defence offered its BMS - MIRA 42 mobile monitoring system

The MILIPOL 2015 started very dramatically both for us and many other exhibitors – against the backdrop of events that had brought sadness both to France and to the whole world. During the weekend preceding the exhibition, it was not clear whether it would take place at all, or under what circumstances. Although there were quite a few exhibitors, mainly overseas ones, who decided not to participate, the exhibition ultimately did take place. Increased tension and nervousness were visible throughout our stay in Paris, but life kept going on.

There were fewer visitors attending the exhibition, but those who turned up knew what they wanted. We registered more experts who formulated their questions fairly accurately and were interested in parameters of the equipment they needed.



Our company presented its BMS - MIRA 42 mobile monitoring system at MILIPOL, which had already received an award at the IDET 2015 fair, with an upgraded HD resolution daytime camera designated SUMO – HD 32. The new product in our portfolio attracted many visitors of our stand, as the image quality improvement it brings should be a benefit for all security forces using long-range and medium-range electro-optical monitoring systems.

We shared our stand with EUROLAMP s.r.o., which presented its new product in Paris – the Guard Trooper personal multifunctional torch, with a possibility to integrate a small recording camera.

In our view, the exhibition went well and we expect that the potential business deals we are negotiating now will go equally well.

Dipl. Eng. Igor Valníček, CEO

### RETIA presented a new-generation ReTWis 5 radar

Retia a.s. introduced its upgraded ReTWis 5 radar, an imaging system designed to see through obstacles. The presentation was attended by the Czech Ambassador in France, Her Excellency Marie Chatard.

The new ReTWis is a light-weight, easily portable miniradar designed to detect living beings behind walls and other non-metallic obstacles.

“I am very happy we have managed to introduce a new version of our radar, which is more compact, lighter, and whose range has been extended to 40 meters, at an event as important as this one,” said Petr Tichý, Commercial Director of RETIA, a.s.

The ReTWis radar is a useful tool for police and military rapid reaction units, giving the latter the capability to map in detail the premises they

are going to assault and identify hidden threats and dangers they may be faced with there. The system thus significantly improves the tactical planning process, minimizing the risk of injury or loss of life both for the assaulters and for criminals and hostages the latter may hold. Rescuers will find the radar useful in disaster-relief operations, e.g. when searching for casualties in collapsed buildings, as it will help them locate



and recover the victims faster and with less difficulties.

## In addition to weapons, Česká zbrojovka Uherský Brod also showed its CZ 4M VIP ballistic vest

*Česká zbrojovka a.s., Uherský Brod, ranks among leading world manufacturers of firearms. At the MILIPOL 2015 fair in Paris, the company focused on presenting its elaborated and advanced programme for armed and security forces. It also pays a great deal of attention to accessories, which are an indispensable prerequisite for a successful accomplishment of demanding tasks which soldiers and police officers are faced with. This was why the company also displayed its portfolio of bulletproof vests in Paris.*

The latest pistol models, CZ P-07 and CZ P-09, CZ

The ReTWis 5 radar is extraordinarily compact and its weight is low; it can thus be hand-held or installed on a tripod. When used, it is placed directly on the wall, but it also possesses a useful stand-off function which allows it to be deployed in a safe distance from the building that is going to be searched.

In this respect, the Immigration Police may find the instrument handy as well. They could use it to easily set up mobile checkpoints to look for illegal immigrants hiding in trucks without actually having to open and enter their semi-trailers.

“In addition to the ReTWis radar, we presented air defence systems and ReDat recording system at the Villepinte Exhibition Centre in Paris. Although we were afraid the previous terrorist attacks would be reflected in a lower number of visitors, we registered



a significant level of interest in our products. All in all, the fair was a successful event for us,” added Petr Tichý.

**Text and photos by RETIA**

SCORPION EVO 3 A1 submachine gun or CZ 805 BREN assault rifle were enjoying a great deal of



interest of members of the professional community who visited the stand. The same applied to the CZ 4M VIP ballistic vest, designed to be worn covertly. This product had already won two major prizes before MILIPOL 2015, the Golden IDET award at the IDET 2015 fair in Brno in May 2015 and the Most Original Czech Product award at the DSEI 2015 exhibition held in London in September 2015, where the ballistic vest was presented in the category of personal protection products. The latter was the first international award that the CZ 4M VIP ballistic vest can boast of.

**Česká zbrojovka**

# NCS COLLEGE 2016

University of Defence, Czech Republic  
&  
NATO – Group of National Directors on Codification (AC/135)

in cooperation with

National Codification Bureau, Czech Republic

and with support of

NATO Support Agency

Support Division of Ministry of Defence, Czech Republic  
Defence and Security Industry Association of the Czech Republic  
AURA, s.r.o., Czech Republic

are organizing

## NCS College 2016

composed of

NATO Codification System Course for Managers & Logisticians

29 August – 2 September 2016

NATO Codification System Course for Codifiers

5 – 23 September 2016

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Managers & Logisticians

**NCS** NCS College  
International Courses  
Codifiers

### NCS Course for Managers & Logisticians

#### Participants

This course is designed for logisticians at a managerial level dealing with codification and its interrelations at national and international levels.

### NCS Course for Codifiers

#### Participants

This course is designed for personnel who are or will be dealing with practical issues of codification and who have already acquired basic knowledge of codification processes.

**The 3<sup>rd</sup> successful NCS College  
– experience it in 2016**

#### Venue

University of Defence  
Kounicova 65  
612 00 Brno  
Czech Republic

**Language:** English

#### Contact Information

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Phone: +420 544 508 111  
Fax: +420 544 508 112  
Mobile: +420 602 613 306

NCB, Czech Republic  
nám. Svobody 471/27  
160 01 Prague  
Czech Republic  
E-mail: [katalogizace@army.cz](mailto:katalogizace@army.cz)

#### Registration of the students

According to the “first come, first served” principle.  
Max. 4 students from one organisation.  
Registration available on:  
[www.ncscollege.cz/2016/application-form](http://www.ncscollege.cz/2016/application-form)



# Awards to the Best in 2015



Attended by 60 members of the Editorial Board and more than 90 prominent guests, including Defence Attachés of the United States, Russia, China, Poland and Slovakia, an annual meeting of the Editorial Board followed by the "2015 Best" award-granting ceremony took place in the main conference hall of the Ministry of Defence of the Czech Republic.



Many companies have recently celebrated their anniversaries and thus received commemoration letters.

## AWARDS TO OUTSTANDING PERSONALITIES

**Personality of the Year in the Government Sector:** Director General of the Fire Rescue Service of the Czech Republic, Brig. Gen. Drahošlav Ryba



**Manager of the Year:** Dipl. Eng. Jiří Štefl — Chief Executive Officer of OPTOKON a.s.



**AWARDS TO PRODUCTS**  
**Most Interesting Product of the Year**

MUM-14 monocular night-vision system by PRAMACOM – HT, spol. s r.o.



**Innovation of the Year – ANORGAN** by PRAGO-ANORG, spol. s r.o. + Academy of Sciences



**International Project of the Year – Vehicle TITUS** by TATRA TRUCKS a.s.



## AWARDS TO COMPANIES AND ORGANIZATIONS

**2015 DSIA Section (awarded for the first time) – Equipment Section of the Defence and Security Industry Association of the Czech Republic**



**2015 Jumper of the Year – AGADOS spol. s r.o.**



**Management Team – MESIT holding a.s.** on behalf of MESIT aerospace, s.r.o., MESIT aerotrade, a.s. and MESIT defence, s.r.o.



**Company of the Year in the Field of Security** Pavliš a Hartmann s.r.o.



**Company of the Year in the Field of Defence** RETIA a.s.



**Company of the 1995-2015 Period** OMNIPOL a.s.



The annual meeting was held under the auspices of the Presidium of the Defence and Security Industry Association of the Czech Republic

The main partners were CSG – Czechoslovak Group and TATRA TRUCKS

Partners: Contsystem, OMNIPOL, ERA, EXPLOSIA, RETIA, PAMCO, T-CZ and ORITEST



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