

# Czech Defence Industry & Security Review®



3/2017

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



## NEW GENERATION OF TACTICAL COMMUNICATION

### LMCP-series Mobile computing platform with OPTOKON HMA Connector

- 3 x Routable 100/1000Base-X RJ-45 WAN ports
- Managed Ethernet Switch 8x 10/100/Base-T and 2x 10/100/1000Base-X
- 2 x RS232 and 1 x CAN bus
- Linux-based router solutions supports a multitude of routing protocols

Connectors and cables  
for extreme temperatures  
ranging from  
-60°C to +85°C



OPTOKON NATO  
supplier code: 1583G



WWW.OPTOKON.COM





# PROTECTION OF PEOPLE AND CRITICAL INFRASTRUCTURE

**WE REALIZE SECURITY SYSTEMS IN A SPHERE OF  
PROTECTING PEOPLE AND CRITICAL INFRASTRUCTURE.**

We are accustomed to even the most demanding of requirements. After twenty years of experience our products have been sufficiently tested so that they can be relied upon completely. Regular improvements by security experts means that our products are up-to-date and reliable at all times.

Security analysts use our products to easily monitor high-risk areas. Systems promptly detect all abnormal

and dangerous situations and help make immediate decisions, which means they reduce the probability of successful sabotage or terrorist attacks.

Thanks to the open architecture of our modular systems we are capable of creating unique and uniform custom-made security systems. The resulting structure meets our customer's requirements and wishes completely.





## 1 | OBJECT PROTECTION „KERBEROS”



**KERBEROS 2D SCANNER**  
chassis scanner



**KERBEROS 3D SCANNER**  
chassis scanner



**KERBEROS MOBILE**  
mobile 2D scanner



**KERBEROS HANDY**  
handy 2D scanner



**KERBEROS RECOGNIZER**  
vehicle recognition



**KERBEROS ANPR SYSTEM**  
NP identification

The KERBEROS products are designed to scan and inspect vehicle undercarriage when entering guarded objects.

## 2 | PERSONAL PROTECTION „ORTHOS”



**ORTHOS PROTECTOR**  
vehicle detection



**ORTHOS TRACER**  
vehicle tracking



**ORTHOS GUARD**  
people guarding



**ORTHOS CONVOY**  
people transport

The ORTHOS systems are a solution for the protection of persons during transport and in a place. They mutually complement and form so complex protection system.



## 3 | SPECIAL APPLICATION



**MOBILE CHECKPOINT**  
mobile persons  
and vehicles inspection

MOBILE CHECKPOINT is a complex system of mobile inspection station enabling security inspection of persons, luggage and vehicles when entering guarded area.



**UGV TAROS**  
robotic system

UGV TAROS is an autonomous robotic vehicle designed for guarding strategic areas or individual properties. This robotic system provides more specific means of usage, in particular in

# EDITORIAL

Dear readers,

Most of the companies presented in this issue of the Review and dealing in the defence and security industry will also display its unique products and services at the Milipol fair, which will again take place after two years in Paris from November 21 to November 24, 2017. The Czech companies, such as EVPÚ Defence, VOP CZ, REDO, Prototypa-ZM or DEPENDABLE SOLUTIONS, also make use of the Review magazine to invite you to their respective stands at the fair.

The Milipol exhibition is primarily focused on national security, which was why we asked, just like two years ago, Deputy Director of EUROPOL and former

Police President of the Czech Republic Major General Oldřich Martinů for an exclusive interview.

At the turn of May and June 2017, the Czech Republic hosted the IDET International Defence and Security Fair, as well as parallel PYROS and ISET events. You will find an evaluation of the exhibition, as well as a report on the presentation of Czech companies at the official national stand of the Czech Republic at the DSEI fair held in September 2017 in London.

We will be looking forward to meeting you again in 2018 at events and fairs such as ENFORCE TAC, IWA, DSA, IDEB, EUROSATORY, and NATO Days and FUTURE FORCES FORUM in the Czech Republic. On behalf of the editorial staff, I would like to wish you all the best and every success in the new year.



Šárka Cook  
Editor in Chief



14



16



18

## CONTENTS

- 7 Opening Remarks by H. E. Petr Drulák
- 8 Czech Exhibitors at Milipol 2017
- 10 Cooperation between Czech and French Industries
- 12 Contribution by OPTOKON – LMCP Family
- 14 Mobile Monitoring Vehicle
- 16 Critical Infrastructure Protection by VOP CZ
- 18 Interview with Deputy Director of Europol
- 20 Protection Service of Police of the Czech Republic
- 23 AURA Conquers Continents and Regions
- 26 We help you help Others – GUMOTEX
- 29 Golden IDET NEWS Award Ceremony
- 30 Czech Companies at DSEI



# EDITORIAL BOARD OF CDIS REVIEW 2017

## CHAIRMAN

**Jiří Hynek** – President of DSIA CR

## DEPUTY CHAIRMAN

**Bohuslav Chalupa** – Founder of National Defence and Security Institute

## DEPUTY CHAIRMAN

**Radek Hauerland** – Vice-President of DSIA CR, Vice-President for External Communication of Česká zbrojovka

## HONOURARY MEMBERS

**General Petr Pavel** – Chairman of the NATO Military Committee

**Jaromír Novotný** – Advisor to the Czech Prime Minister

**General ret. Pavel Štefka** – Advisor to General Director Trade Fairs Brno for IDET

**Miloš Titz** – Honourary Chairman and Founding Member of Editorial Board

• • • • •

## MILITARY OFFICE OF THE PRESIDENT OF THE REPUBLIC

**Maj.-Gen. Jan Kaše** – Chief of the Staff

## SENATE OF THE PARLIAMENT OF THE CR

**Michael Hrbata** – Advisor to Senator

## THE OFFICE OF THE CR GOVERNMENT

**Jiří Winkler** – Defence and Security Department, Office of the Government of the CR

## MINISTRY OF FOREIGN AFFAIRS OF THE CR

**Miloslav Stašek** – Deputy Minister for Economic and Operational Section

## MINISTRY OF INDUSTRY AND TRADE OF THE CR

**Vladimír Bártl** – Deputy Minister

**Zdeněk Richtr** – Director of License Administration

**Martin Šperl** – Deputy Director, Department for Export Strategy and Management Service

## MINISTRY OF DEFENCE OF THE CR

**Tomáš Kuchta** – Deputy Minister

**Martin Dvořák** – Director, Defence

Standardisation, Codification and Government Quality Assurance Authority

## MINISTRY OF JUSTICE OF THE CR

**Maj.-Gen. Petr Dohnal** – General Director of Prison Service of the CR

• • • • •

## ARMED FORCES OF THE CR

**General Josef Bečvář** – Chief of the General Staff

**Maj.-Gen. Jaroslav Kocián** – Deputy Chief of the General Staff

## POLICE OF THE CR

**Maj.-Gen. Tomáš Tuhý** – Police President

**Col Tomáš Hytych** – Director of the Air Service

## FIRE RESCUE SERVICE OF THE CR

**Maj.-Gen. Drahošlav Ryba** – General Director

**Brig František Mencl** – Director, FRS Region Hradec Králové

## NATIONAL SECURITY AUTHORITY CR

**Martin Fialka** – Director of Administrative and Physical Security Department

## REGIONAL AUTHORITY

**Aleš Boňatovský** – Secretary of the Pardubice Region Security Council, Head of the Crisis Management Section

• • • • •

## CZECH PROOF HOUSE FOR TESTING ARMS AND AMMUNITION

**Milan Kukla** – Chairman

## CESES FSV CHARLES UNIVERSITY

**Miloš Balabán** – Head of the Center of Security Policy

## AFCEA CZECH CHAPTER

**Tomáš Müller** – President

## GREMIUM ALARM ASSOCIATION

**Václav Nepraš** – President

• • • • •

## DEFENCE INDUSTRY REPRESENTATIVES

**Štěpán Černý** – Business Director of SVOS

**Miroslav Dvořák** – Chairman of the Board of PAMCO and T-CZ

**Filip Engelsmann** – General Director of AURA

**Andrej Hronec** – General Director of Audiopro

**Josef Hudeček** – Vice-Chairman of the Board of MESIT holding

**Lucie Kadlecová** – Marketing Manager - Rubber and Plastics Branch - GUMOTEX

**Petr Kokeš** – Commercial Director of INTV

**Jan Köhler** – Commercial Director of T-CZ

**Antonín Mohelník** – Director of the Prague branch of ELDIS Pardubice

**Radoslav Moravec** – General Director of ZEVETA

**Petr Novák** – Chairman of the Board of RETIA

**Lukáš Novotný** – Marketing Manager of Czechoslovak Group

**Lenka Orlová** – Company Executive and Director of ORITEST

**Jaroslav Pecháček** – Vice-President of DSIA CR, Managing Director of SWORDFISH

**Marika Přinosilová** – Director Marketing and Communication of OMNIPOL

**Jiří Rousek** – Exhibition Director of IDET, PYROS/ ISET

**Petr Rusek** – Chairman of the Board of TATRA TRUCKS

**Pavel Růčka** – General Director of Intercolor

**Jaromír Řezáč** – Chief Executive Officer of GORDIC

**Jiří Řezáč** – Vice-President for Cooperation and Trade Policy of DSIA CR,

Advisor to General Director of OMNIPOL

**Milan Starý** – Marketing Manager of ERA

**Pavel Šalanda** – Vice-President of DSIA CR, Director of ROHDE & SCHWARZ - Praha

**Jiří Šimek** – Managing Director of Quittner & Schimek

**Ladislav Šimek** – Vice-President of DSIA CR, Managing Director of DROPPER and SHIMEQ Air

**Marek Špok** – Director of VOP CZ

**Jiří Štefl** – General Manager of OPTOKON

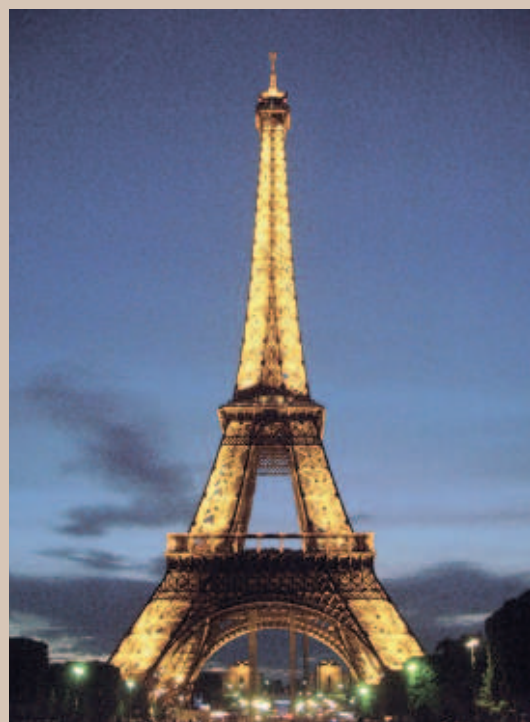
**Josef Tichý** – General Director of EXPLOSIA

**Jaroslav Trávníček** – Vice-President for Industry of DSIA CR, Technical and Business Director of VTÚ

**Igor Valníček** – General Director of EVPÚ Defence

**Aleš Výborný** – Director - Czech Republic of BAE Systems

# Invitation to Milipol Paris 2017



*The 20<sup>th</sup> edition of Milipol Paris, the Worldwide Event for Homeland Security organized under the patronage of the Ministry of the Interior, will take place from 21<sup>st</sup> to 24<sup>th</sup> November 2017 at the Paris-Nord Villepinte exhibition center. In 2015, the show brought together 949 exhibitors from 55 countries and more than 24,000 visitors from 143 countries.*

**The 2017 conference programme will be organised into the 5 following themes:**

- Crisis Management & Resilience
- Cyber Security & Fraud
- Safe & Smart Cities
- Fight against Terrorism
- E-ID & Smart Borders

**Moreover, in order to bring to light the most innovating products, Milipol Paris organizes for the first time the Milipol Innovation Awards into 5 categories:**

- Cybersecurity (Fight against cyberthreats and cybercriminality solutions)
- Safe and smart cities (Transportations & connected car security & safety, smart lightening, CCTV, monitoring...)
- Individual Equipment / first responder protection (materials, textiles, fabrics & accessories)
- Drone & anti-drone systems, robotics
- Crisis Management (emergency population warning systems, crisis management, command & control)

## Czech Participation

**AVEC CHEM – G 108**

**ČESKÁ ZBROJOVKA – M 140**

**Czech Trade Promotion Agency – G 094**

**Dependable solutions – P 240**

**Euro Security Products – G 096**

**EUROLAMP – G 100**

**EVPÚ DEFENCE – H 093**

**FORSOLUTION LTD. – S 083**

**Holík International – E 189**

**INWARD DETECTION – D 140**

**InvaSys – C 097**

**KOUTNÝ – H 105**

**LEC – A 060**

**LEMAX – H 101**

**LUVU Prague – G 102**

**Phonexia – D 026**

**PROAMMO CENTRAL EUROPE – G 098**

**ProponentS.eu – B 017**

**Prototypa-ZM – H 097**

**REDO – G 106**

**SELLIER & BELLOT – M 140**

**VIGrand – S 136**

**VOP CZ – D 152**

**Zelený Sport Defence – A 187**



# Opening Remarks by H.E. Petr Drulák

Ambassador of the Czech Republic in France and Monaco



***It is my pleasure to make a few opening remarks on the occasion of the Czech Republic's presentation at the Milipol international trade fair dedicated to technologies and equipment for law enforcement agencies. Milipol is an acknowledged and one of the most prestigious exhibitions in Europe and Czech companies have traditionally been eager to present themselves at this event. With more than 20 Czech exhibitors, this year's edition of Milipol will be record-breaking.***

Taking into account current developments in the world regarding threats to homeland security, it is no surprise that more and more attention is paid to the needs of law enforcement agencies. It is mainly the ever changing nature of security risks that needs to be addressed, with the growing importance of countering terrorism.

These trends have inevitably brought to public eye the necessity to strengthen and modernize functioning of security authorities. Once again, effectivity and capability of the police have become the top priority. Besides, it seems that law enforcement bodies in many European countries have been lacking sufficient funding and necessary investment in their equipment

in the last decade. That needs to be changed now.

Combination of these factors has led to the current boom on the market of technology and equipment for the law enforcement. Growing attention and interest in Milipol, both from governmental procurement bodies and from exhibitors, perfectly reflects this trend.

I note with appreciation that the Czech industry responds efficiently and flexibly to this growing demand for reliable and state of art technology. It is, without any doubt, the long lasting industrial tradition of the Czech Republic in security and defence equipment that makes our companies a well suited partner for law enforcement agencies in the entire world. Strength and potential of the Czech industry is well demonstrated on this years Milipol, where 23 Czech exhibitors display their production and know-how. Taking into account the size our country with a population slightly, this is truly an impressive number.

Czech industry will offer the visitors of Milipol Paris a wide and complex range of products: starting with ammunition from the renowned manufacturer Sellier & Bellot and light arms from Česká Zbrojovka to scanners, surveillan-

ce and perimeter protection from VOP CZ, Inward Detection, Invasys, LEC, Lemax and EVPU Defence. Numerous Czech companies will present personal equipment at the trade fair: Avec Chem their solutions for protection against chemical hazards, Eurolamp will exhibit tactical lighting and companies Holik International, Koutny and REDO specialised fabrics and clothing.

It is also important to note the increasing trade between France and the Czech Republic in the sector of security. Thought it reflects the overall trend of boosting volume of trade between our countries, trade in security equipment has its specific dimension where reliability and mutual trust are key factors for cooperation. It is then a proof of high quality that numerous Czech suppliers have recently found clients among various law enforcement bodies in France, such as Ministry of Justice and Special Forces.

Czech security and law enforcement industry has never been as strong and attractive for new clients as today. I hope, therefore, that Milipol Paris 2017 will continue this positive trend in expansion of Czech industry abroad and it will give Czech companies plenty of opportunities to forge new business ties with French and other international customers.





Dependable Solutions is the producer of safety discharging systems - devices „Bullet Crusher“, tested and certified by Military Testing Laboratory.

The company is based in Prague, Czech Republic.

Bullet Crusher is used to safely discharge whatever kind of the firearm. The device can contain up to cal. 12,7 BMG.

**Contact person:**  
Mr. Daniel Krňanský

Visit us  
P 240



**DEPENDABLE SOLUTIONS s.r.o.**

PHONE: +420 774 444 111  
+420 775 310 627 (en)  
E-MAIL: dan@2dds.cz  
[www.2dds.cz](http://www.2dds.cz)



EVPÚ Defence a.s. is the specialist in own development, design, production and service of special monitoring and surveillance systems, special monitoring vehicles, two-axis intelligent pan/tilts and multi-sensor heads.

**Contact person:**  
Mr. Igor Valníček – General Director

Visit us  
H 093



**EVPÚ Defence a.s.**

Jaktáře 1781  
686 01 Uherské Hradiště  
Czech Republic  
PHONE: +420 572 557 542  
E-MAIL: evpu@evpudefence.com  
[www.evpudefence.com](http://www.evpudefence.com)



Development and production of ballistic equipment for testing of the cartridges for hunting, sport or military weapons in accordance with the standards C.I.P., TP-VD, TPF, STANAG, MOPI, MIL, SAAMI etc.

Testing of protective materials in accordance with the standards STANAG 2920, AEP-55, NIJ 0101.

Research, development and production of small arms, cannons and ammunition and mounting for weapons.

**Contact person:**  
Mr. Vít Nezval – Head of Ammunition  
& Ballistic Department

Visit us  
H 097



**Prototypa-ZM, s.r.o.**

Hudcova 533/78c  
612 00 Brno  
Czech Republic  
PHONE: +420 544 501 800  
FAX: +420 541 513 681  
E-MAIL: pzm@prototypa.cz  
[www.prototypa.cz](http://www.prototypa.cz)



Company REDO develops and manufactures equipment and gear for armed forces, fire service, and security agencies. Our products include rucksacks, ballistic vests and bulletproof helmets, bags, vests, combat wear for special units, cases and packaging for ammunition, rearms, and various equipment, mobile field beds, etc.

REDO is also distributor for Active Carbon Bandages.

**Contact person:**  
Mr. František Máčalík – Foreign Sales Manager

Visit us  
G 106



**REDO s.r.o.**

Tovární 582/9  
798 11 Prostějov - Vrahovice  
Czech Republic  
PHONE: +420 582 330 912  
FAX: +420 582 330 914  
E-MAIL: f.macalik@redo.army  
[www.redo.cz](http://www.redo.cz)



VOP CZ is an integrator and supplier of advanced military equipment and systems mainly for the Czech Army. The activities are focused on:

- Protecting people and critical infrastructure, UGV robotics systems, vehicle undercarriage scanning systems, entrance protection, important people and property security
- Main battle tanks, vehicles and means of transport
- Chemical, biological and radiological protection

**Contact person:**  
Mr. Richard Daněk – Sales Manager

Visit us  
D 152



**VOP CZ, s.p.**

Dukelská 102  
742 42 Šenov u Nového Jičína  
Czech Republic  
PHONE: +420 556 783 111  
FAX: +420 556 701 734  
E-MAIL: vop@vop.cz  
[www.vop.cz](http://www.vop.cz)





# Milipol Paris 2017

Worldwide Event  
For Homeland Security  
20<sup>th</sup> edition

Take Up  
The Challenge  
of a Safer World

The World's Leading Network of  
Homeland Security Events



[www.milipol.com](http://www.milipol.com)



[www.milipolqatar.com](http://www.milipolqatar.com)



[www.milipolasiapacific.com](http://www.milipolasiapacific.com)

21-24  
NOV. 2017

PARIS NORD VILLEPINTE  
FRANCE



COMEXPOSIUM

# Cooperation between Czech and French Industries

*France has been always an important military power with powerful industrial capacities in arms production. Though it may have seemed that France's military potential and arms exports have been languishing in the last decade, the last few years leave no doubt that France is back as a major player on international market. With a new French strategy of modernisation of its Army, there is still more to come. Major changes take place in the sphere of homeland security, too. Threats against civilian targets and new challenges in anti-terrorist combat require increased spending and modernisation of equipment of French law enforcement agencies. Both trends can be of an opportunity for Czech exporters in security and defence industry.*

## Challenges for French military industry

France, just like other countries, has to adapt to the changing environment of security threats. New conflicts changed the view on the required military capabilities of the French army and brought new impetus to the development of France's military industry. Rising demand on world markets contributed to this trend with a similar vigour.

France's military materiel exports have jumped by 14 % from 2011 to 2015. In 2016, France managed to sell arms and equipment for more than 20 billion euros making the country the fourth biggest arms exporter worldwide. This is due mostly to the first successful export of Dassault Rafale multirole fighter jets. 2016 was fruitful for French naval industry, too, as DCNS – Thales won a contract on modernisation of Australian submarine fleet.

Given objective needs, the French Army is



quickening the pace of modernisation of its armed forces. In October 2017, the French Government has published its new Strategic Review of Defence and National Security that stresses the need to maintain France's capabilities of autonomous action, increase military spending and promote international cooperation including industrial partnership with other European countries. New investments will focus on enhancing combat readiness, command and control and combat support. Special attention is paid to research & development and new technologies in warfare.

## Reinforcement of homeland security

Deteriorating security environment in Europe triggers demand for rapid and efficient modernisation of law enforcement agencies. Increase in funding of National police and

French Gendarmerie and acquisition of new equipment is nowadays a key priority of the French Government. The range of articles varies from non-lethal weapons, communication equipment, and clothing to firearms, ammunition and special equipment for counter-terrorist operations.

## What opportunities for Czech businesses?

Increasing modernisation efforts of the French Armed Forces and law enforcement agencies, as well as thriving French weapons industry offer new opportunities for Czech defence sector. Our companies may definitely profit from their credit gained by an already existing cooperation between Czech and French industries.

In the military sphere, mutual projects include Nexter Titus, an infantry mobility vehicle manufactured by French Nexter Systems in cooperation with traditional Czech manufacturer of heavy-duty vehicles Tatra that provides Titus with its unique chassis. Tatra supplies 8x8 chassis for another Nexter Systems' product, the self-propelled howitzer CAESAR, as well.

Czech companies have equally proved to be reliable partners to French law enforcement agencies. Apart from its military use, French Special Forces are currently testing the above mentioned Nexter Titus. Czech light arms manufacturer Česká Zbrojovka supplied Police Tactical Unit of the French National Gendarmerie GIGN with its latest model of assault rifles BREN 2. Last, but not the least, special ammunition for French Special Police Forces is provided by another renowned Czech manufacturer, Sellier & Bellot.

**Tibor Opěla,**  
Head of Trade economic department,  
Embassy of the Czech Republic in Paris





# Dependable Solutions

**Dependable Solutions – the producer of safety discharging systems**  
- devices "Bullet Crusher", tested and certified by Military Testing Laboratory.



We have designed and developed the unique, portable Ballistic discharging systems for your safe manipulation with the gun.

We are a proud supplier of Law Enforcement, Military and Special Units and Shooting Sport Industry throughout Europe.

The company is based in Prague, the Czech Republic.

Bullet Crusher is used to safely discharge whatever kind of the firearm. The device can contain up to cal. 12,7 BMG.



The unique cartridge of BC is able to defragment and halt all kinds of ammunition used worldwide, including the bullets with the stainless core.

The construction of the equipment is sophisticated and resistant that in spite of the compact size is able to provide the safe discharging of high-speed bullets.

There are two basic models BC-1, smaller, lighter version of BC, up to 11000J and the "army" model BC-2, up to 17000J, the bigger brother of BC-1, made of SSAB HARDOX STEEL.

Both models are portable and can be wall, table car mounted, or supplied with the stand. Offering various upgrades, colours, prints as per the clients requests.

Our main target and focus is to increase your comfort and safety and prevent injuries.

Visit us at Hall 6P, stand 240.

[www.2dds.cz](http://www.2dds.cz)

## BETTER SURVEY

**RETI**A®

# RetTRACK

**An optical system for recording and evaluation of live firing of the VSHORAD units.**

### RetTRACK system advantages

- Light and portable system
- Live firing evaluation capability
- Day - night mode

RetTRACK is used by the Czech Armed Forces.



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



# Contribution by OPTOKON – LMCP Family for Use in Generic Vehicle Architecture

*The army of the Czech Republic will probably use the increased budget to modernize the ground-based technique that can be used in the future within the command and control system, a part of the digitization of the battlefield.*

It can be assumed that this will be the modernization of mobile platforms, both wheeled and tracked chassis, but always with the aim of easy integration into systems with different uses, such as command and control, communication, and special use.

The basic prerequisite for integration and interoperability is to use a common architecture based on common standards. In the case of mobile platforms, this is a Generic Vehicle Architecture (GVA) and its implementation in accordance with STANAG 4754 NGVA.

STANAG defines requirements on architecture that enable to interconnect vehicle systems via Vetrionics with other Systronics systems. ("Systronics describes the mechanism (processes, architectures, standards, MMI) by which the integration of mounted and dismounted subsystems, applications and crew members of a mobile land system can be achieved. This should include internal and external communication and networking to support the broader Battlefield C4I Systems.") An example of such architecture – VICTORY Architecture, which has already been implemented in NATO projects, is shown in Figure 1. On the basis of the GVA system requirements, OPTOKON has developed a family of devices – LMCP - Light Mobile Computer Platforms,

Model LMCP	Brief description	Cooling Passive/ FAN	Processor				Gigabit Ethernet			USB		RS232 CANbus	Discs SSD	Size mm W x D x H		Oper. temp
			Type of CPU	TDP qty Core	Bench- mark Rating	Mem. RAM max. GB	LAN ports	PoE+ WAN	GIE	3.0	2.0			Weight kg	Min.	Max.
LMCP-28HE	Standard Temperature	Passive	Xeon D-1528	35 W 6	8612	64	8+2 SFP	8	3-5	1	4	4 / 1	2	294 x 353 x 130	-10°C	+55°C
LMCP-28HE	Extended Temperature Range	Removable Fan	Xeon D-1528	35 W 6	8613	128	8+2 SFP	8	3-5	1	4	4 / 1	2	294 x 368 x 130	-10°C	+65°C
LMCP-41H	More powerful CPU	Fan	Xeon D-1541	45 W 8	11200	128	8+2 SFP	8	3-5	1	4	4 / 1	2	294 x 395 x 130	-10°C	+55°C
LMCP-87	More powerful CPU & Graphics Card nVIDIA	Fan	Xeon D-1587	65 W 16	13489	128	-	-	8+2 SFP	1	8	2 / 1	4	340 x 368 x 130	-10°C	+55°C
LMCP-7H	Small size	Passive	Intel i7-6600U	15 W 2	4814	32	7	-	3	4	-	0 / 1	2	152 x 152 x 102	-10°C	+55°C
LMCP-7HP	Small size 4x PoE+	Passive	Intel i7-6600U	15 W 2	4814	32	4	4	3	4	-	1 / 1	2	152 x 172 x 102	-10°C	+55°C
LMCP-7HQ	8+2 x PoE+ Managed Switch	Passive	Intel i7-6600U	15 W 2	4814	32	8+2 SFP	8	3	4	2	1 / 1	2	430 x 130 x 58	-10°C	+55°C

which interconnect vehicle systems with the systems for command and control, communication and EW, see Figure 2.

LMCP are structurally small, specialized, compact computers in a ruggedized construction with various interfaces for connecting devices used in command and control systems. LMCP are designed to integrate the data link of dismounted soldiers, sophisticated platforms, surveillance and reconnaissance sensors, IP cameras and vehicle electronics (vetronics). The purpose of this link is to ensure the optimum data connection of these systems in key communication and information systems.

LMCP are designed to analyze, encode, stream, and record video signals for up to 4 IP cameras at the same time, implementing the network router, network switch, and powerful server.

LMCP communicate with the radio through the serial interface with the huge advantage to the operator that LMCP administration can be carried out either locally (local VGA + USB port) or remotely by using the Baseboard Management Controller (BMC). The BMC can manage from a base level of HARDWARE (such as the BIOS, Health Monitor, and Power Control) to the KVM console redirection, including the redirection of DVD and USB 2.0 data media.

LMCP are also powerful universal mobile computing platforms, which integrate a robust Gigabit Ethernet router, a manageable Ethernet switch, and a server based on the Intel Xeon processor six core D-1528 with a 9 MB Cache and 1.9 GHz speed. This series represents the System-on-a-Chip platform processor aimed at low power and demanding server applications. Extremely high performance supports 4 memory positions with a total capacity of up to 64 GB and modern M.2 position PCI-E x 4 3.0 for SSD disc.

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

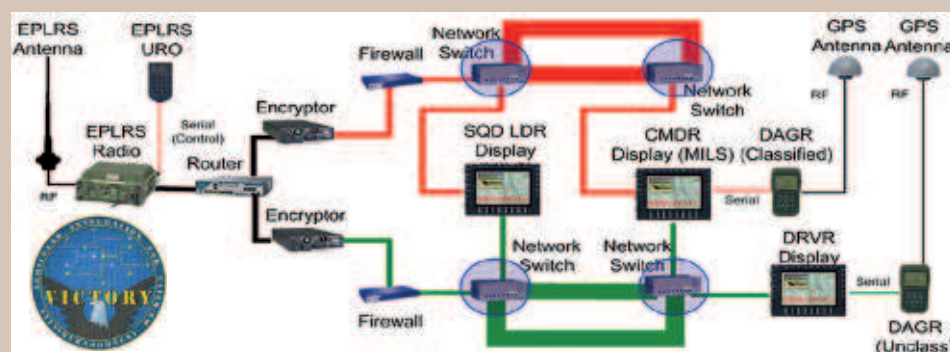


Figure 1: VICTORY - Vehicular Integration for C4ISR/EW interoperability



Figure 2: Family of LMCP devices

LMCP are a prime example of the integration of various functions, unique interfaces, and unique technology connectors for links to information and communication technology equipment. LMCP are robust in a miniature design and suitable for implementation in information systems used in demanding cli-



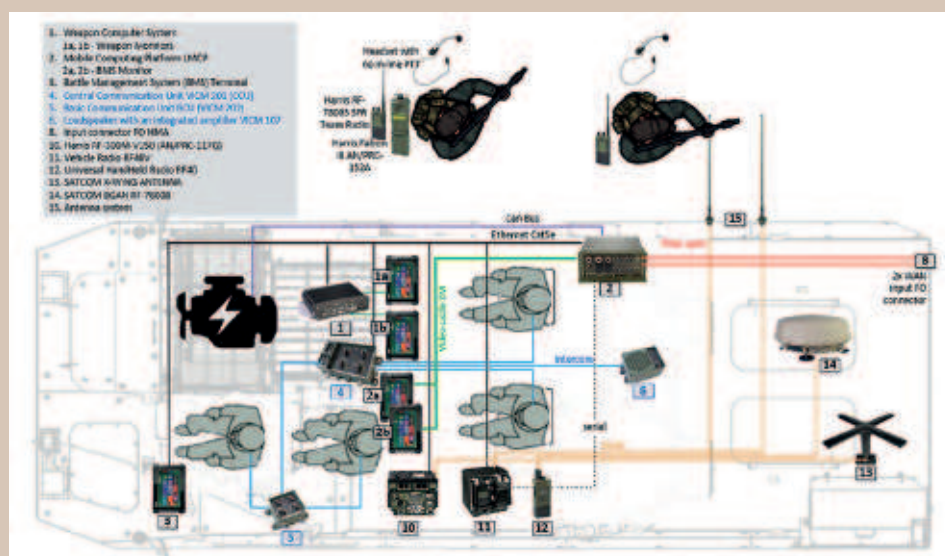


Figure 3: Example of LMCP implementation in an armored vehicle

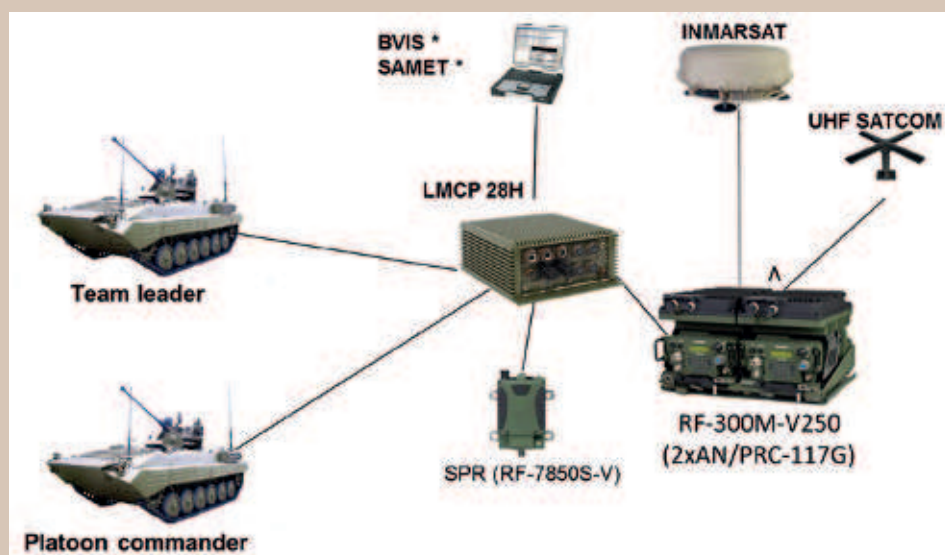


Figure 4: Example of LMC implementation in a tactical operation center

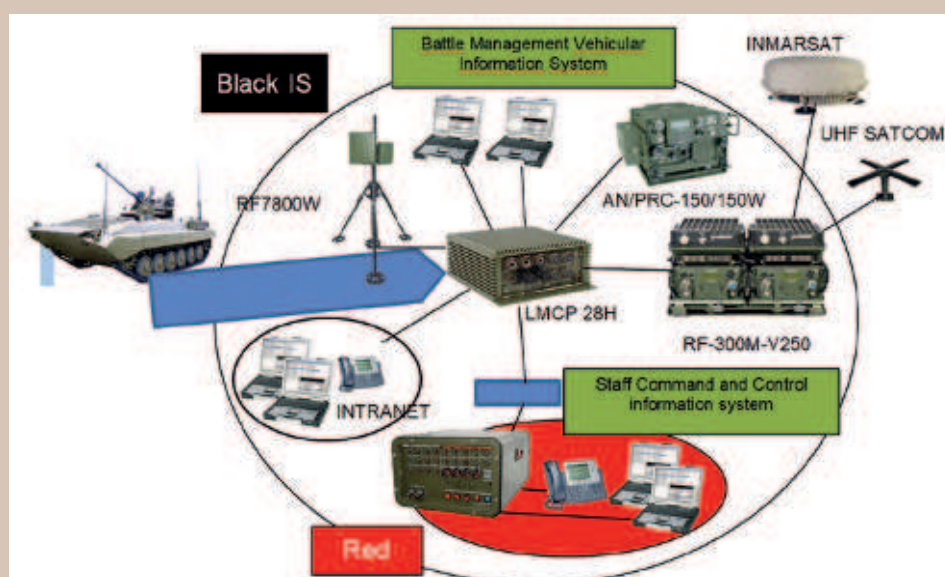


Figure 5: LMCP as central unit in battalion TOC

LMCP fulfill customer requirements for robust integrated computing and communication platforms for widespread use.

### Tactical Cable - OPK-U-DSTTAC Manufactured by OPTOKON Kable Co., Ltd., s.r.o. Pelhřimov. The member of OPTOKON Group



One of the most commercially successful products from OPTOKON Kable Co.,

Ltd., a new Czech Optical Cable Manufacturer, is a multipurpose, durable tactical cable with polyurethane jacket.

The basic structural element of this cable is that the fibers are especially mechanically and thermally resistant, easily stripped of secondary protection, which along with the kevlar yarn forms the core of the cable. The cable sheath is made of halogen-free fire retardant polyurethane with reduced smoke.

During development, the cable was subjected to demanding testing and proven to be suitable for use in the most demanding mechanical and climatic conditions.

The cable is suitable for use not only in extreme military applications, but also, due to its properties, also in various civil applications, temporary installation of critical communication lines where quick retrieval and re-use is required, especially in heavy industries, mining, and various mobile applications, etc.

#### Main features of the OPK-U-DSTTAC:



- High mechanical resistance
- Chemical resistance
- UV resistant
- Excellent flexibility, even at temperatures well below freezing
- Meets the requirements of IEC 60794-1-2, TIA / EIA-455-41 and TIA / EIA-455-25 - military requirement
- Easy stripping of secondary acrylic coating
- High resistance to extreme temperatures (+ 85 °C, -60 °C)

#### Dear Business Partner,

We are pleased to inform you that OPTOKON Kable shall participate in AFRICACOM 2017 exhibition. Please accept our invitation to visit our OPTOKON Kable Stand No: BA01



[WWW.OPTOKON.COM](http://WWW.OPTOKON.COM)



matic conditions (heavy industry, mining, police, army) and implement a direct connection to optical data networks with high data throughput and high transmission reliability.



# Mobile Monitoring Vehicle Allows Connection to City Surveillance System



***EVPÚ Defence a.s. made a monitoring vehicle for the Municipal Police in Zlín, that required a possibility of connecting the vehicle to a city video surveillance system.***

Monitoring vehicles are designed for monitoring and surveillance of areas of interest such as boundary lines, airports, oil refineries, power plants, coastal areas and other areas with increased demands for flexible protection during both day and night time. Using highly sensitive IR cameras, daytime HD cameras, laser rangefinders, GPS and digital magnetic compasses they allow to increase security of the monitored area against a penetration by intruders even in adverse weather conditions up to 20 km range (according to a selected configuration). Their main activities are detection, recognition and identification of persons and vehicles, capture their image, exact location, processing and electronic archiving of the image and possibility of the control and coordination of the other units at the same time. The systems are characterized by a modular and compact design and a low power consumption.

Our mobile monitoring system is ideal for police, army and other security forces usage, and as a key tool it allows members of the crisis staff, police officers and other members of the Integrated Rescue System to

work directly on-site of events of interest such as sport events, football matches, car races, gatherings and meetings of public etc. The entire system can be remotely controlled with the information transmitted to a control center. At the same time, it allows to display the images of the city surveillance system in the vehicle and thus enables the municipal police to coordinate a rapid response to any event in the area of interest effectively.

The monitoring device can be installed on any type of vehicle (passenger car, SUV, van) which has a sufficient space needed for installation. The basic outline of the vehicle remains unchanged even after complete modification. Installation is solved through the box body, where the special monitoring system is built-in, completed with thermal vision camera. Thanks to the telescopic system the monitoring can be performed from the height of 5.6 metres. The vehicle perimeter is guarded by a "fisheye" camera with IR illumination for possible usage during the night missions.

The vehicle was displayed at IDET 2017 exhibition in Brno and the interest of domestic and foreign visitors showed that the vehicle was very successful. The most important thing for us is that the work of EVPÚ Defence team has been positively evaluated by the end user.

**[www.evpudefence.com](http://www.evpudefence.com)**







EXHIBITION OF DEFENCE ENGINEERING  
SLOVAK REPUBLIC

**16. - 18. 5. 2018**

[www.ideb.sk](http://www.ideb.sk)



INCHEBA  
EXPO BRATISLAVA



# Critical Infrastructure Protection by VOP CZ, s.p.

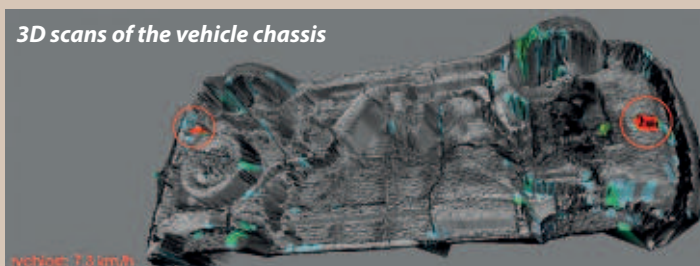
*VOP CZ, s.p., is a major Czech defence company and a recognized partner of foreign enterprises in the field of mechanical engineering manufacturing cooperation. As to research and development, the company focuses on new defence and security products, as well as on products earmarked for civilian applications. Its designers participate in many projects implemented in cooperation with both domestic and foreign experts. One of the areas which the designers of VOP CZ, s.p. focus on is the protection of critical infrastructure (CIP).*

The CIP portfolio offered by VOP CZ includes solutions and products used to protect points of entry to sites and buildings, to identify and track vehicles, or to check undercarriages of vehicles, as well as mobile checkpoints, perimeter protection equipment, advanced perimeter video analysis and TAROS V2 UGV unmanned robotic system.

One of the key projects in this respect is the unique KERBEROS 3D VISION system used to check bottoms of vehicles, i.e. chassis of passenger cars and trucks entering the premises.

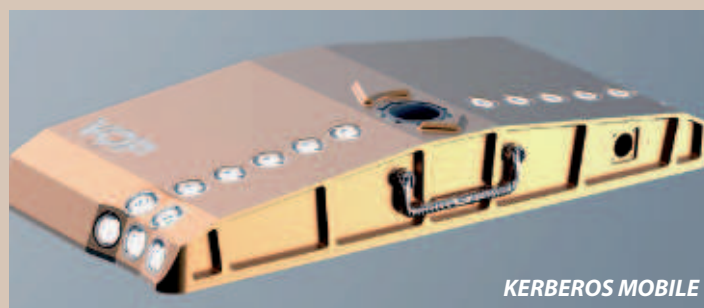


3D scans of the vehicle chassis

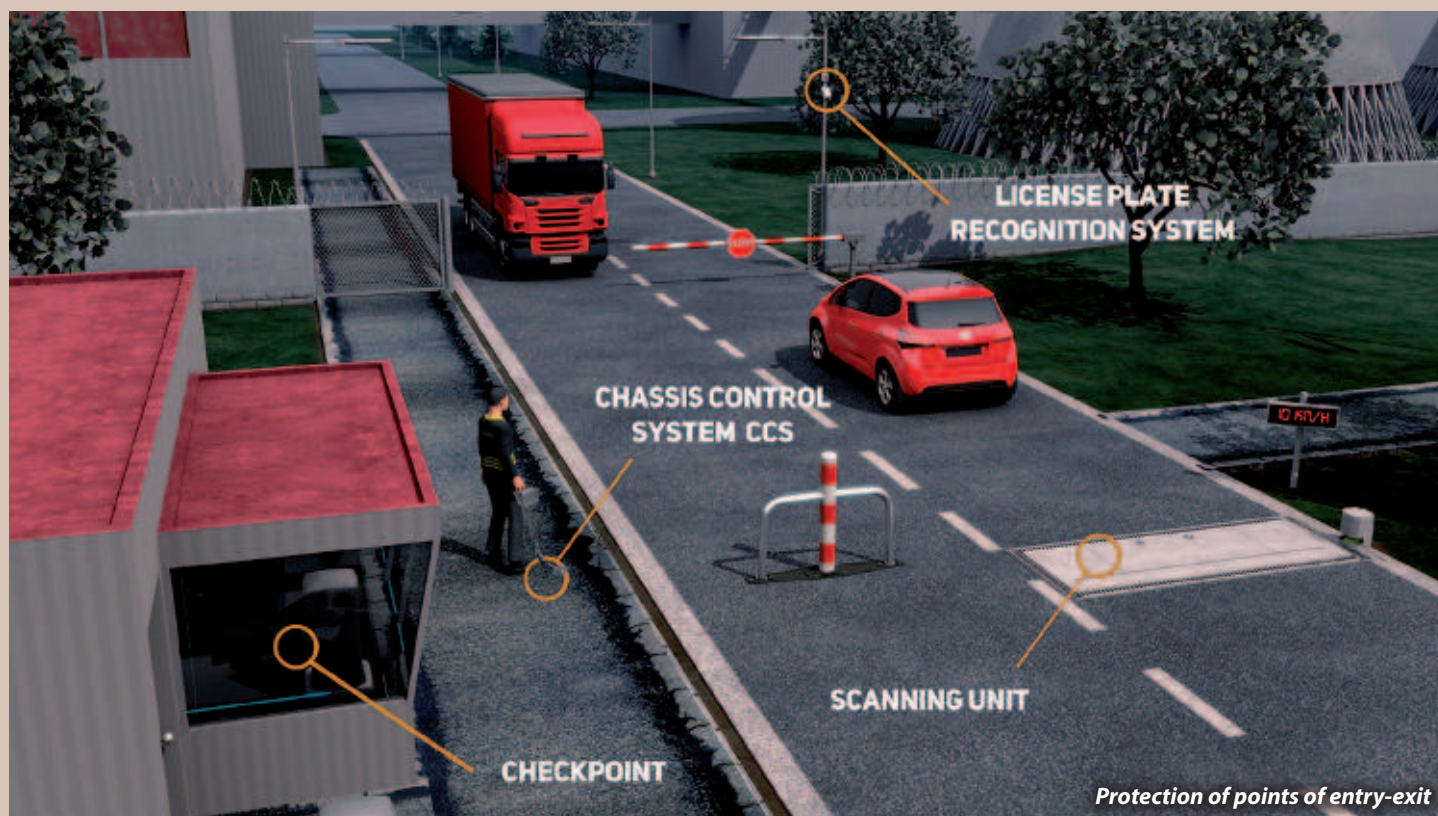


cally compared to previous scans of the same vehicle. In addition to the 3D scan, the operator of the system can also make use of a conventional high-resolution photograph of the chassis which is used to detect and identify potential undesirable objects on the chassis or for the purpose of a visual inspection when the vehicle enters the premises for the first time. The KERBEROS 3D VISION system is capable to detect and identify a potential threat very efficiently, and react to it quickly and effectively without having to move around the checked vehicle. Another attractive feature of the system is its high throughput, which is up to 10 vehicles a minute.

If the situation demands visual inspections of vehicles in the field, VOP CZ, s.p. offers a mobile version of the system known as KERBEROS MOBILE. The unit allows a very quick visual check of the vehicle's chassis, including an automatic archiving of the scan and a possibility



The system provides a semiautomatic scan of a high-intensity, deep 3D image of a passing vehicle in both visible and close IR spectrums. The result is a spatial 3D model of the checked chassis, which is automati-





to compare it against previous scans of the same vehicle. The system is very compact and its deployment takes just a few minutes.

Another product of VOP CZ, s.p., is a system designated SKP, a Czech abbreviation for a "chassis check system", which fully replaces still used inspection mirrors. An analog camera is used to take a digital picture of the chassis and transmits the image online to the operator's display. The camera features a LED-based system permitting the operator to



illuminate dark spots or to work under deteriorated light conditions. If the customer wishes so, the system can be optionally supplemented by archiving scans for later use.

The TAROS is an unmanned, ground, remote-controlled UGV (unmanned ground vehicle) category device, capable of moving through difficult terrain, which can be equipped with a wide range of sensory and weapons components, such as a robotic hand, communication sub-systems, logistics superstructure, etc. The system includes an operator/control terminal for direct remote control of the vehicle. Communication and transfer of control signals is through wireless modules. This equipment is particularly suited for direct support of combat activities by mechanised, reconnaissance and special units. This device is capable of carrying out reconnaissance and potentially combat activities (depending on the type of superstructure) and is also able to localise enemy units and firing positions. The device is intended for deployment and manoeuvring activities in high-risk areas, for example areas covered by enemy fire or with the probable occurrence of enemy IEDs, potentially their activation or deactivation, where it realises high-risk activities, including combat activities and draws the attention of the enemy. This means it saves the lives of its own forces, provides immediate informational superiority over the enemy and



immediate combat support during operations. This device is not intended (in the medium-term horizon) as an absolute replacement of the soldier in the full spectrum of a soldier's operating deployment, but rather as a tool, or as support when carrying out selected reconnaissance or tactical activities.

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





# The Czech Republic is Appreciated Mainly for Cooperating in Solving Drug-Related and Financial Crime



*It is our long-standing tradition to interview outstanding representatives from the many Czech security organisations or the European Union before the Milipol Paris event. One of the highest-placed Czechs in a European organisation is unquestionably Major General Oldřich Martinů, ex-President of the Police of the Czech Republic and current Deputy Director of Europol. The key question for this current interview is: What changes have occurred in Europol's areas of interest in the past two years, i.e. since our last interview?*

**Mr Deputy Director, what are the most important changes or innovations of the past two years that you could highlight?**

In this respect, I must mention the formation of new centres within Europol's Operations Department, namely the European Counter Terrorism Centre (ECTC) and European Migrant Smuggling Centre (EMSC). As a result, there has been an increase in operations taking place in member countries, which we initiate or coordinate. Another major change is the coming into force of a new Europol Regulation, which facilitates more efficient analysis and exchange of information to prevent and combat organised crime and terrorism.

**Available information indicates that you**

**employ approximately 100 crime analysts who rank among the best in Europe. Can you describe what role they actually play in the cooperation?**

Altogether we now have 150 analysts who process information from different sources,

particularly that contributed by member countries, to ensure investigations involving identical perpetrators are linked, or to add new information to the investigation process. In addition to operational analyses for so-called live cases, we also regularly present strategic analyses on new trends or new modus operandi.

**What are the other non-EU countries and international organisations that Europol cooperates with? What is your opinion of the cooperation?**

The exchange of information and close cooperation naturally involves many non-EU nations as well. For example, major partners include the FBI and DEA. I also have to mention countries of the so-called Western Balkans, plus Colombia and Australia. Our day-to-day partner organisations in operational cooperation are Interpol or Frontex.

The exchange of information through Europol has recently shown an exponential growth rate. The continuously improved standardisation of communication channels between security authorities and our organisation is undoubtedly a contributing factor.

**Can you explain to our readers what the term SOCTA means?**

In short, SOCTA – the Serious and Organised Crime Threat Assessment – is Europol's flagship strategic analysis product, which is produced every four years. The report identifies principal threats posed by organised crime to the European Union, and proposes priorities for national police forces to







jointly focus on. In addition to a number of specific areas, such as drug-related crime, facilitation of illegal migration, or tax fraud, the SOCTA also identifies horizontal threats and priorities, including abuse of identity, falsification of documents, financial crime, or the abuse of modern technologies and the internet.

**Europol's Consolidated Annual Activity Report summarises results and specific information on types of functions and systems available to Europol, and on the provision of coordinated support of police operations all over Europe. Can you please tell us how the report speaks of cooperation with the Czech Republic?**

Our Consolidated Annual Activity Report is submitted to the Council of Europe, European Commission, and European Parliament. The Czech Republic is appreciated mainly for its cooperation in the fields of drug-related and financial crime, but also in the area of human trafficking.

Our police are represented by two liaison officers at Europol; the total number of Czechs working for Europol is 16 and they directly participate in arranging and supporting the cooperation with Europol and, through it, with other countries as well.

**Europol needs modern methods and tools to be able to perform its activities. Could you tell us, if possible, how the Czech defence and security industry is doing with respect to products and services offered to Europol?**

Europol closely cooperates with many state and private entities, and providers of technological and communication services. We could not be successful without this cooperation, particularly in the field of cybercrime. We are of course paying a great deal of atten-

tion to the protection of our databases and systems.

However, the provider's home country is irrelevant for us; it is the quality, and of course security aspects, of cooperation with a given provider or supplier that matter.

**The problem of growing threats and, to some extent, also of changing strategies of current terrorist organisations place increasing demands on security forces and organisations. What progress has Europol recently achieved in this respect?**

EU cooperation in the field of terrorism has been rapidly improving, and one of the major contributing factors is a more intensive exchange of information through Europol. Our annual TE-SAT strategic report on trends in the field of terrorism brings information on growing numbers of thwarted terrorist attacks and people investigated as suspected terrorists.

**What tasks are you facing in connection with the great increase in the number of refugees and anticipated higher crime rates in EU Member States?**

In this respect, we are supporting approximately 60 ongoing parallel operations of member countries against smugglers of illegal migrants, which is primarily the EMSC's task. In addition, the Internet Referral Unit (IRU) continues to look for illegal content, such as offers for illegal services or promotion of Islamic State, on the internet and in social media, and recommends that the relevant service provider removes the content.

**Mr Deputy Director, thank you for the interview.**

**Šárka Cook**  
Photo Europol



## OPTOKON HMA SERIES

### HARSH ENVIRONMENT CONNECTORS



Connectors and cables  
for extreme temperatures  
ranging from -60 °C to +85 °C

**OPTOKON NATO SUPPLIER CODE: 15836**

### HARSH ENVIRONMENTAL HYBRID FERRULE CONNECTOR

- SFF ferrule termination procedure
- Excellent transmission parameters
- Hybrid connection (FO/copper wires)



New hybrid  
HMA connector

### HARSH ENVIRONMENTAL EXPANDED BEAM CONNECTOR

HMA-J series  
HMA-S series



- Advanced expanded beam technology
- MIL-DTL-83526 specification
- 2 - 8 fiber channels (fiber and electrical channels)
- Singlemode and/or Multimode
- Hermaphroditic interconnection
- No adaptors necessary

### HARSH ENVIRONMENTAL FERRULE CONNECTOR

HMA-JF Series

- SFF ferrule termination procedure
- Excellent transmission parameters
- Hermaphroditic interconnection



### CABLE DRUMS



OPTOKON, a.s.  
Cerveny Kriz 250, 586 01, Jihlava, Czech Republic  
tel. +420 564 040 111, fax +420 564 040 134

WWW.OPTOKON.COM



# Protection Service Czech Police Maintain High International Standard



**The Protection Service of the Police of the Czech Republic responsible for direct protection of the constitutional authorities, VIPs and other significant persons, particularly foreigners, has belonged for many years to the closely watched activities of Czech national police and other security services. Current political situation in the**

*global scale promotes the activities to the priority security issues for every country. As early as in 2009, which was the year of US president Barack Obama's or pope Benedikt XVI's visits to the Czech Republic, our journal published an interview with the director of the in that time existing Institutional Authorities Protection Unit major general Lubomír Kvičala. Several year passed since then and the requirements placed on the protection units of that kind keep rising. Therefore, we welcomed the very positively approached interview of the director of the Protection Service of the Police of the Czech Republic, brigadier general JUDr. Jiří Komorouš, who has been in the office since 1 August 2013.*

**General, what is the primary mission and highest priority for the Protection Service of the Police of the Czech Republic?**

Personally, I am convinced that our main priority as implied from the principal tasks for and the mission of the Protection service Czech Police is the protection of lives and health of the protected persons entrusted to us, no matter whether Czech or foreign origin. If a head of state coming with certain risk factors, for example, is entrusted to our care then the responsibility is enormous.

Protection service Czech Police provide the listed permanently guarded constitutional authorities of the Czech Republic and the persons with provided protection during their stay in the Czech Republic territory according to international treaties with body and episodic protection and secured transports.

Further, the Service is responsible for protection of more than 200 diplomatic installations (embassies and ambassadors' residences) and for protection of protected buildings and compounds of special importance for internal order and security as approved by the government. These include for example House of Representatives of the Czech Parliament, Senate of the Czech Parliament, Czech Republic Constitutional Courtyard, Czech Government Office, Ministry of the Foreign Affairs of CR, Ministry of the Interior of CR and others.

It is also responsible for hygienic and toxicological protection, which stands for a comprehensive set of measures to guarantee the protected persons are served harmless food. In connection with the protection of secured persons, it arranges measures to guarantee security for persons and of buildings and installations.

Based on minister's decision, it is responsible







for a short-time protection of endangered persons in special cases, such as judges or political representatives of the Czech Republic.

**How many security actions concerning foreign delegation protection do you arrange and what does that include?**

In 2016, we arranged 240 security actions in total comprising a comprehensive set of activities and specialisations. We are responsible for the protection of the entire delegation as well as secured transport, place of living, food, explosive countermeasures against possible attempts on life, intelligence countermeasures against eavesdropping, etc.

If there is a military persona of the foreign nation within the delegation, we of course cooperate with Czech MoD.

There are three top-level specialised units providing person protection. One is the independent President Protection Unit responsible for the president and the ex-presidents, then the Protection Service of the Police of the Czech Republic as the largest one of the three and the Military Police Security Guard of the Czech Republic responsible for MoD representatives, such as Minister of Defence, Chief of Defence and other listed personas but also for foreign military delegations. When a foreign minister of defence pays a visit to the Czech Republic, our unit calls Military Police Security Guard in joint action but they report to us at the moment.

**Does the unit have adequate number of police personnel and employees?**

Every police or military unit commander would say that more personnel is needed but I think, especially considering some new and envisaged installations under our protection, we will have to request increased number of staff. Otherwise, with the current 1400 police personnel and employees the staff shortage is minimum. The reason lays in some actual needs because we passed through staff cut-backs in recent years causing exhaustion of the existing personnel due to the quantity of

compulsory responsibilities. Of course, we need reinforcement but not a massive one. Our effort of selected recruitment of personnel to the vacancies is quite successful. However, the applicants' quality is sometimes to the detriment of acceptance possibilities. Every applicant must pass a relatively complex competitive examination, from the patrol service whose requirements are less specific to bodyguards for which we require university degree, police background, excellent psychological results, physical results. Many end up at physical tests, but the all police and military are facing that problem. Today the generation of young men starting their lives is highly computer literate but many times reflects the low physical dispositions.

We have maintained the requirements equal for a long time, but it issues from the discussion at, for example, national conferences of police commanders or specialists' opinions in neighbouring countries. In my opinion, it is a present-day feature and western civilisation condition.

**Does your previous position of Anti-Drug Centre director match the current one?**

I was acting as the Anti-Drug Centre director for more than 18 years. I utilise the experience learnt in the period though the service is just the opposite. The Anti-Drug Centre was an investigative unit working in criminal environment struggling to catch crime authors or a gang. This service is rather oriented to activities that should prevent an attack or attempt, etc. However, many things, actions and subjects usually overlap and this is what I utilise in my current position.

**What are the plans and goals, do you expect any changes to come?**

The primary goal is to keep Protection service high standard it undoubtedly has. From the strategic tasks point of view, we want to continue to develop issues like training. In the recent 6 years, we have successfully improved logistics for weapons, outfit and



**OPTOKON TACTICAL NETWORK**  
**OPTOKON NATO SUPPLIER CODE: 1583G**

**OPTOKON KABLE CO., LTD., S.R.O.**

European Fiber Optic Cable Producer, Member of OPTOKON Group



**HIGH QUALITY CABLES**  
- Tactical military cables  
- Fire resistant  
- Indoor cables  
- Outdoor cables  
- Universal cables

WWW.OPTOKONKABLE.COM

**LMSW-08 SERIES**  
**RUGGEDIZED FIELD SWITCH**



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

**LMCP-28H**  
**MOBILE COMPUTING PLATFORM**



Mobile server  
for audio, video  
and data signals

- 3 x Ratable WAN ports and Managed Ethernet  
Switch 8x 10/100/Base-T and 2x 100/1000Base-X

**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

OPTOKON, a.s.  
Cerveny Kriz 250, 586 01, Jihlava, Czech Republic  
tel. +420 584 040 111, fax +420 584 040 134

WWW.OPTOKON.COM





vehicle pool equipment. We are working on our own training centre, and would like to build a new facility for the department of protected person transport. The latter is our priority. Our car pool comprises several dozens of very expensive vehicles that need adequate parking, personnel lodging and all the comfort concerning materiel support. The project has been approved and passed

to pre-implementation phase. Talking about tactical and strategic tasks, we have modernised the fitness gym for our personnel and plan to build a cardio centre.

#### **Where do you train today?**

In these days, it takes place at multiple places, which makes it relatively fund and time demanding. We try to concert the trained

personnel requirements and personnel's needs in actual operation. Considering we have no own centre in near distance we use military training areas, such as Doupov, Jince... or various shooting ranges with matching capacity.

#### **What does international cooperation entail?**

Every action of ours is international cooperation. The basis both for trips of our protected persons abroad and for foreign protected persons' visits to the Czech Republic, issues from the communication with the advance teams arriving to our territory to prepare the visit. Our unit includes a liaison officers department who communicate with foreign protocol and our partners the conditions, routes, etc. A number of bodyguards arrive from the other country to our territory and cooperate with us in joint operation. Then, they report to our command. It applies also vice versa. When Czech protected persons travel abroad, we have to follow our foreign partners' regulations and command. The key is always communication and usually all goes with no major problems.

**General, thank you for the interview.**

**Šárka Cook, photo author  
and Protection Service Czech Police**





# AURA Conquers Continents and Regions

*After the last year's Australian and Swedish success when AURA provided its software for support of NATO Codification MC CATALOGUE for the Armed Forces of both countries, AURA has achieved another superb successes with this logistic information system in the United Arab Emirates (UAE), Republic of South Africa and in Japan. MC CATALOGUE, fully developed according to the NATO Codification System (NCS), is currently the most widely used codification software, which is used in different modifications in 19 countries on 5 continents.*

## MC CATALOGUE – the most successful export article of AURA

The main activity of AURA, a purely Czech company, is development of own information systems and their implementation for armed forces, industry and public administration. The company provides its customers with original and unique products and services of a high quality that ensure the company a forefront in its field in the world and at home.

AURA is focused on information systems for materiel codification since the beginning of the implementation of the NCS in the field of defence in the Czech Republic in the second half of the 1990's. Implementation of this sophisticated information system into conditions of NATO and non-NATO countries together with other services constitutes the backbone of foreign strategy of AURA. MC CATALOGUE helps to increase the labour efficiency of National Codification Bureaus and the whole defence industry. It is possible to use a similar tool developed by AURA also for unambiguous specification of purchased goods and services in public procurement.

Not only a codification of the military equipment is possible, but also non-military products and services can be codified.

## Gate to the Near East and Middle East is opened

The information system for codification MC CATALOGUE 5 was set into the operation in the Armed Forces of the United Arab Emirates in the beginning of March of this year. Attended by high representatives of the UAE Armed Forces, an international exchange of data with other NCS engaged countries started and historically the first UAE's NSN (NATO Stock Number – a unique identification of an item of supply) has been created. The Chief of Logistics of the UAE's Armed Forces appreciated excellent result of the project and he emphasised its high importance to the logistics of the UAE Armed Forces. The United Arab Emirates is the first country from the Near East who uses currently the most modern codification information system MC CATALOGUE.

## Phenomenal success of AURA in Africa

After several years of exacting cooperation with South African partners, a project of implementation of MC CATALOGUE successfully began in the South African National Armed Forces in September of this year. In the next few days a project team of AURA will



start its operation and after installation of an initial version of MC CATALOGUE, they will start to work on an implementation of an interface on present systems used by the South African Armed Forces.

## MC CATALOGUE won Japan

During the Pacific Area Cataloguing Seminar (PACS) that took place at the end of October this year in Tokyo, the Director of the National Codification Bureau of Japan announced officially to representatives of AURA company a decision for joining Japan to the number of countries who chose MC CATALOGUE as a base for the national military logistics. At the same time he welcomed a possibility of support of AURA in the process of transformation of Japan into the level Tier 2 – the highest level of the integration of a country to the NCS. The full engagement of Japan in these international structures is a very important step in current tense safety situation in the region. The fact that Japan, absolute ICT world power, chose for this purpose AURA and MC CATALOGUE is an amazing success of this company and incredible appreciation of a quality and reliability of its work in the field of logistic information systems.

by Antonín Svěrák, photo AURA



# On-Board Avionics for Launchers, Satellites and UAS/RPAS

**esc Aerospace is a leader in the field of on-board software & hardware 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.**

esc Aerospace's 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. The 3<sup>rd</sup> generation of UAS Avionics offers a possibility of Autopilot, Trajectory Management and Tracking functions. The 4<sup>th</sup> generation of GNC Avionics is being

developed for Launchers and Missiles, Satellite instrumentation and Satellites. The 5<sup>th</sup> generation is a miniaturized and highly reliable system that enables UAS to perform an autonomous flight using an advanced method of control. The 6<sup>th</sup> generation is a revolutionary ASIC designed for a wide range of space radiation measurements. It can be deployed as a highly miniaturized radiation detector with the capability of identifying radiation in advanced radiation detection systems and early warning systems.

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 esc Aerospace's GNC

System lies in the system concept: flexible architecture allows customers, partners or integrators to use 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 operated cost impact related to them. By having these concepts and tasks integrated into pro-

gramming and development environment 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 advantage is in flight preparation and flight operations. Using a generic framework that utilizes known, qualified and tested generic approach, new innovations on control, GNC and on-board software can be quickly and reliably performed with the ability to demonstrate a scale of operational behaviour from single to multi-level. All used processes are a baseline for functional and autonomous requirement definition and they lead to supporting the development of tools for Validation & Verification.

esc Aerospace is the Czech MOD Authorised and Contracted Expert for EDA JIP RPAS (European Defence Agency Joint Investment Programme on Remotely Piloted Aircraft Systems) WG. Further, esc Aerospace is an active member of DSIA's section for Autonomous Systems and Robotics.

esc Aerospace is located in the Czech Republic, Germany and USA. esc Aerospace has recently conducted a demonstration of C-UAS drone detection on US Airports.

More information about esc Aerospace at [www.esc-aerospace.com](http://www.esc-aerospace.com).



Gumárny Zubří Inc. is engaged in the development, manufacture and marketing of protective full-face masks for military as well as civil uses. In addition, the Company's products range includes OPCH-05 special ventilation chemical insulating suit, developed to meet the needs of the chemical troops of the Czech Army.

#### Our product range includes:

- ◆ Military protective masks model OM-90
- ◆ Civilian protective masks model CM-6
- ◆ Protective filters
- ◆ Bags
- ◆ Police intervention helmets
- ◆ Plastic bottles
- ◆ Single-use protective suit model JP-90

Contact:

**Gumárny Zubří, incorporated**

Hamerská 9  
756 54 Zubří  
Czech Republic

Phone: +420 571 662 366  
Email: [marketing@guzu.cz](mailto:marketing@guzu.cz)  
[www.guzu.cz](http://www.guzu.cz)



**PICKUP TRUCK BED STORAGE SYSTEM**

- drawers with 100% extension
- weatherproof option available
- customizable
- suitable for PICKUP TRUCK, VAN, SUV, ARMoured VEHICLES, TRUCKS, etc.



**MOBILE WORKSHOPS NEW or MODERNIZED**



**production - modernization**

- ideal for field repairs, maintenance
- built into ISO containers, box bodies
- customizable

**PICKUP TRUCK BED SLIDE OUT FLOOR**

- load capacity up to 1000 kg
- fast and easy assembly
- suitable for FIRE AND RESCUE VEHICLES, POLICE, MILITARY VEHICLES



Visit our website: [www.mobile-workshops.com](http://www.mobile-workshops.com)  
or contact us **US, CA (011) 403-775-1234**  
**Europe (+420) 602-286-881**  
email: [army@alfavaria.cz](mailto:army@alfavaria.cz)





*Propellants, Explosives, Specialities*



**Export to more than 40 countries**



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

Propellants: +420 466 824 649, Explosives: +420 466 825 331, Specialities: +420 466 825 774



# CLUTEX – Cluster of Technical Textiles



CLUTEX – cluster of Czech companies operating in the sector of the development and production of a full range of technical textiles. Special and protective clothing for the armed forces and other law enforcement agencies are an integral part of the development and research projects of the cluster. Their results and outcomes positively affect the quality and utility characteristics of fabrics, knitted fabrics, ribbons and braid from their production, as well as the properties of supplied clothes and their components.

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



## Help to help Others. That is why GUMOTEX offers Products Tailored to Users' Experience

***What requirements does a tent need to meet, so it can easily withstand both Siberian frosts and African heat? What materials will last for months, even years, of continuous deployment? These are just some of the many issues that GUMOTEX focuses on when developing new products for the army, police, fire-fighters, and rescuers. A poor response is simply out of the question, as health and lives of people are often at risk.***

Without putting end-user experience at the top most priority, it is not possible to produce the quality equipment that is used by the military in deployment and by rescue teams. GUMOTEX insists on this! That's why, this August, the Army of the Czech Republic was invited to its production plant in Břeclav. The theme was clear: improvement of the basic military tent, which Czech soldiers have become familiar with over the past three years and have particularly praise for its versatility and resistance. "These are the design features most valued by the military. Our

tents remained standing during an intervention being inflated for nearly two years, and, as confirmed by the soldiers who worked in them daily, the tents would hardly get such a stress test anywhere else. However, they succeeded," said Pavel Polák, Sales Manager of Rescue Systems brand.

It is just field-based knowledge that helps developers to adjust every detail on the tents to the customer's satisfaction. "We have changed the accessories on the new type of tent: we took the strain off the portable generator, increased the self-sufficiency of

the tent unit, reduced its total weight, and the most important thing is that we reduced its purchase price," said Pavel Polák describing some of innovations.

His team and he are also following the latest trends, integrating them during development as well as into production. "The army, no matter from which country, requires the lowest energy intensity as possible. That is why we are working with the Military Research Institute on various tent designs and accessories so that the tent units consume as little energy as possible, and, at the same time, they provide users with the same comfort as before," mentioned Polák.

At present, the Czech Army uses about 100 inflatable tents and more than 10 large halls from GUMOTEX. For the Army, it is absolutely essential that the materials used must have the maximum amount of durability. "Each of these tents must be able to withstand, without difficulty, not only on home soil in the Czech Republic but also in Africa or vice versa in Siberia," concluded Polák.

[www.gumotex-rescue-systems.com](http://www.gumotex-rescue-systems.com)







**WE HELP YOU HELP OTHERS**

**GUMOTEX**  
RESCUE SYSTEMS

[www.gumotex-rescue-systems.com](http://www.gumotex-rescue-systems.com)



# IDET Fair was Successful



***The IDET - PYROS - ISET trade fair trio with its commercial, political and international significance is the second most prestigious event of the year right after the International Engineering Fair. The opening of the fair was attended by President Miloš Zeman, Minister of Defence Martin Stropnický, Chiefs of the General Staff of the Czech and Slovak Republics, representatives of the Presidium of the Police of the Czech Republic and the General Directorate of the Fire Brigade, foreign defence ministries and embassies. A total of 17 foreign delegations from Belgium, Brazil, Egypt, Philippines, France, Kazakhstan, Latvia, Macedonia, Hungary, Germany, Norway, Poland, Austria, Slovakia, Sweden, Rwanda and Turkey took part in the fair at the joint invitation of the Czech Ministry of Defence and Chief of General Staff of the Armed Forces of the Czech Republic.***

388 exhibiting companies from 30 countries took part in the IDET exhibition, 58 % of them from abroad. For three days, 32,828 visitors passed through the exhibition centre gates. On Saturday a Security Day took place at the exhibition grounds, focusing on the presentation of the integrated rescue system for the public, on which the Army of the Czech Republic was presented with the fire and police techniques. This extraordinary event did not miss over six thousand visitors.

This year's IDET partner country Turkey showed a very impressive exhibition of leading Turkish companies, including Aselsan or Roketsan, that belong among the largest companies in the world. A large Turkish delegation was led by Deputy Defence Minister Mr. Suay Alpay. In his words, Turkey's participation opened a new phase of relations between the defence industries of both countries; he

also praised the quality of the event, the professionalism of BVV and the Brno Exhibition Centre.

## Golden IDETs awarded to five exhibitors

The Golden IDET awards were handed out at the Slavkov (Austerlitz) Chateau at a festive evening and five exhibitors won this prestigious award. It was Agados s.r.o., which caught attention of the expert jury with its PK-4 Kaga mobile field kitchen, SVOS s.r.o. received the Golden IDET for its semi-armored open light vehicle PERUN ST. Additional awards were won by the company Robinson Armament Co. for its XCR-M 7.62x51 NATO precision rifle, by the exhibitor EXCALIBUR ARMY for its BM-21 MT 4x4 self-propelled rocket system, and by the company Fidelis CyberSecurity USA for its Fidelis Network & Fidelis Endpoint integrated system. The Jury also decided to grant an honorary mention to the AFCEA Cyber Security Task Force for its longstanding contribution to the training and education of armed force specialists in information and communication technology and cyber security.

"Long live the honest armourers," wrote president Zeman in the BVV memorial book. "The armament industry is an industry like any other, and arms exporters need to be promoted like any others," the president said in his opening speech.

"We all know, except maybe a few activists, that securing law and order, i.e. security is the main task of the state. Unfortunately, an ideal world of goodness does not exist. That is why there must be the army, security forces and security fairs. I believe that the IDET / PYROS / ISET fairs will contribute to strengthening our safety," said the BVV CEO Jiří Kuliš in the introductory speech. He responded to the opinion of some activists and city representatives that the Brno Trade Fairs as a city company should cease providing space for arms trade and stop organizing the IDET trade fair. He also thanked the Ministry of Defence and the Czech Army for their cooperation.

"The Army and the Ministry of Defence of the Czech Republic strongly cooperate in organising IDET; I take that for granted ... IDET has several dimensions. It is extremely important for our citizens to know that they have an army, what it does, how it is armed – to know what their taxes are for. In today's rather complex security situation, this is all the more important," said Martin Stropnický, Minister of Defence, to the importance of the fair.

This year's security fairs have been a pleasant surprise, judging by the exhibitors' reactions. They will enter the history of the event as one of the best.

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





# Golden IDET NEWS Award Ceremony



*It has become a tradition for the international journalist jury to meet on the occasion of IDET fair to choose and then appreciate with the prestigious awards the best of the exhibited products registered by their producers to the contest for the Golden, Silver and Bronze IDET NEWS.*

The jury in this year composed as follows: jury president Col Jörg Aschenbrenner (Austria), deputy president Šárka Cook (Czech).

Then, Stephen Elliott (Germany), Stephen Barnard (United Kingdom), Rudolf K. Schiwon (Germany), Walter Christian Håland (Norway), Paolo Valpolini (Italy) and Remigiusz Wilk (Poland) were the jury members.

The ceremony where the journalist contest results were announced took place at the Austerlitz chateau at the gale night in a very pleasing milieu with the attendance of several dozens of invited guests.

The winner of the Golden IDET NEWS was Explosia a.s. company for its DISINTEGRATOR. This is a system using special charges intended to "open" suspicious luggage or subjects. Typical examples include suitcases, backpacks, barrels, wooden boxes, etc. The disintegrators are offered in two modifications – Disintegrator 13 or Disintegrator 50.

The runner-up and the Silver IDET NEWS winner was VVÚ, s.p. for IGLOO. This is a special mobile shelter with a high level of ballistic protection against the effects of explosions, splinters and small calibre projectiles, including the armour-piercing ones.

The Bronze IDET NEWS went to MEOPTA s.r.o. for its rifle for precision shooting with an optical system. The system enables fight actions during both day and night and also under difficult conditions.





# Czech Companies at DSEI

*Almost twenty leading Czech companies attended the 10<sup>th</sup> Defence and Security Equipment Industry (DSEI) international fair held on 12–15 September 2017 in London and BVV Trade Fairs Brno was named as the official contractor for the Czech Pavilion at this year's DSEI by the authorized Ministry of Industry and Trade.*

Together with expositions for individual Czech exhibitors, the total area of stands constructed by BVV Trade Fairs Brno at DSEI was almost 300 m<sup>2</sup>.

In the construction of the official Czech exposition, BVV Trade Fairs Brno managed to superbly satisfy both the presentation requirements of the Ministry of Industry and Trade and the demands and wishes of the exhibitors.

Senior project managers Mr. Michal Štefáček and Mr. Adam Touš proved their extensive expertise and created expositions that provided ample space not only for the catchy presentation of the participating companies' hi-tech production programmes, but also respectable and friendly space for business meetings, as well as space for the supporting events for the exhibitors and invited guests, representatives of the Ministry of Industry and Trade and the Ministry of Defence, the Czech Embassy in London, and also for foreign journalists from trade publishing houses, who unlike the last years visited the Czech National Pavilion and published their articles in world periodicals.

At major world trade shows, and DSEI certainly qualifies as one, all participants are trying to capture visitors' attention with an attractive supporting programme. For its clients, BVV Trade Fairs Brno prepared a Czech Business Day also attended by senior representatives of the Czech government and the defence industry. After their presentations, the guests were invited to a sommelier-guided tasting session of Moravian wines. This combination met with a very positive response from all the attendees. This whole event had a very friendly and informal atmosphere and proved to be the suitable solution how to hold a quality social event right inside the Czech National Pavilion.

Hana Machů, Media Liaison Manager, Česká zbrojovka: "BVV Trade Fairs Brno is our long-term partner. They are always willing and able to solve all our requirements. We consider the construction and administration of our stand at DSEI very successful thanks to BVV Trade Fairs Brno and we would like to thank them for the outstanding cooperation."

Jan Jordán, Sales Manager, The Military Technical Institute: "BVV Trade Fairs Brno did a very good job of organizing our participation at DSEI. BVV representatives went out to meet us more than half way in the preparatory phase and responded quickly to our sometimes atypical demands."

Natalia Jakšíková, Marketing Manager, EVPU Defence: "The construction of our stand was organized by BVV Trade Fairs Brno, with whom



we had a good previous experience, and now they have again proved their professionalism and perceptiveness in how they approached the construction of our exposition."

Lukáš Haubelt, Division Director, Meopta Systems: "We take regularly part in Czech official participations abroad, which are organized by the Ministry of Industry and Trade. Thanks to BVV Trade Fairs Brno our exposition was well arranged, communicative, functional for our products and last but not least precisely crafted."

## Stand Construction & Services

in the Czech Republic and around the world

Fairs

Exhibitions

Events

Services

Grandstands

Interiors

www.bvv.cz/expozice

**BVV**

**Veletrhy**

**Brno**





# MOBILE FIELD KITCHEN PK 4 (KAGA)

- \* Chassis allows redeployment of PK4 in difficult terrain
- \* Fast and simple preparation of PK 4
- \* Usage of modules on the trailer and also set up separately
- \* Modular design for flexible application and wide meal preparation versatility

**AGADOS  
WILL ALWAYS RIDE  
BEHIND YOU**

**FUTURETECH**

Kärcher Group

**COBRANA**



**E-MAIL: OBCHOD@AGADOS.CZ \* PHONE: +420 566 653 311, 566 521 865**

**WWW.AGADOS.CZ**



# Enforce Tac 2016



***The fifth Enforce Tac (Law Enforcement, Security and Tactical Solutions) exhibition has made another step toward acquiring a deserved place in the European calendar of defence and security fairs.***

The event, which took place on March 2 and 3, 2016, in Nuremberg, was attended by 152 exhibitors and more than 2,700 business visitors (the numbers in 2015 were 123 and 2,069, respectively). The exhibitors included mainly German, US, Italian and Austrian companies. Apart from statistical data, the improving level of the exhibition was also confirmed by the exhibitors themselves, although there were no mega-stands of leading global defence companies. The Czech exhibitors included, for example, MEOPTA SYSTEMS, which presented its products at the stand of Franconia, or Česká zbrojovka. In addition to these two companies, we also ran across an interesting stand of the Czech company HQH with materiel and equipment for special police units. We were attracted mainly by an extremely light multipurpose extension ladder. For the first time ever at this event, the Czech defence and security industry was represented by a stand of the Defence and Security Industry Association of the Czech Republic, which presented products of Czech companies and also promoted the forthcoming Future Forces Forum



exhibition and conference in Prague and the IDET fair in Brno. On this occasion, Mr. Dušan Švarc, DSIA's representative at the exhibition, shared a few impressions and opinions with us: "This is my first time here and the exhibition made a good impression on me. Its specialization is fairly narrow, which means there is a room for a professional discussion with real experts. We heard similar words from other Czech exhibitors as well. Only invited guests and professionals from armed forces were allowed on the premises, which meant the event was not over-saturated with visitors, although on the second, i.e. on the eve of the IWA exhibition which followed immediately after ENFORCE TAC, the turn-up was relatively high. As to our potential exhibitors, it is a pity that the exhibition is focused mainly on the German security market, although I have seen a number of foreign visitors, including representatives of Czech police and security forces. However, the situation is gradually changing, as evidenced by statistical data and increasing numbers of foreign companies and visitors. For example, security forces from Latvia, Austria and France have shown interest in some of our products (60mm mortars, production capacities in the Czech Republic, efforts to find distributors etc.). In the light of the fact that we had only printed promotional leaflets at our stand (and also the charm of our assistants Alice and Karolína), I don't think we can complain about lack of interest. We have established promising contacts with foreign customers who have been provided information about specific Czech manufacturers and potential for cooperation. There was even a foreign company with a production facility in the Czech Republic, which has shown interest in joining the DSIA. If the Czech Defence and Security Industry Association considers taking part in the next exhibition, it would be advisable to have more Czech companies here, particularly those dealing in ballistic protection and equipment, NBC protection, detection of persons and substances, medical materiel, simulation and training technologies, either on their own, or as a part of the DSIA stand which we were provided free of charge. In any case, we will, depending on the interest of companies, definitely consider our participation at the next event which will take place on March 1 and 2, 2017."

**Eva Soukupová, photo Miloš Soukup**



DEFENCE & SECURITY INTERNATIONAL EXHIBITION

2018

# EUROSATORY

11 - 15 JUNE 2018 / PARIS

**THE**  
LAND & AIRLAND  
**REFERENCE**



Identify your company  
as a key player



**GICAT**

[www.eurosatory.com](http://www.eurosatory.com)

 **COGES**



Review for Defence and Security Industry

CDIS Review

IDET NEWS

Security and Defence Technologies Catalogue

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

Czech Defence Industry & Security  
**Review**

**Publishing House:** Military System Line, s.r.o., Vykáň 82, 289 15 Kounice, Czech Republic, phone/fax: +420 321 672 601, e-mail: info@msline.cz, www.msline.cz • **Editor in Chief:** Šárka Cook • **Deputy Editor in Chief:** Miroslav Pelz • **Professional Editors:** Šárka Cook, Miloš Soukup, Antonín Svěrák, Miloslava Miklíková, Radek Bár • **Head of Advertising Office:** Eva Soukupová • **Internet Manager:** Soliter-polygrafická společnost, s.r.o. • **Distribution:** MS Line, s.r.o., A.L.L. production, s.r.o. • **Translator's**

**Agency:** Jiří Mareš, Eva Soukupová • **Design:** MS Line, s.r.o. • **Print:** Magnus I s.r.o. • **Issue published:** November 9, 2017 • **Key number:** MK ČR E 17413, ISSN 1802-4300 • Not for sale • **Photo on the cover:** OPTOKON, a.s.

The CDIS Review editorial team bears no responsibility for language and content correctness of text and graphics developed by advertisers and specialist content editors.





**Portable ROOF BOX with  
MONITORING AND  
SURVEILLANCE SYSTEM**  
easily transferable to another car

**MONITORING AND  
SURVEILLANCE VEHICLE**  
equipped with  
pan tilt, CCD camera,  
IR camera,  
LRF, GPS and DMC







**Visit us at MILIPOL 2017  
Stand G106**

**REDO is a leading manufacturer of high quality products, particularly of Modular Load Carrying Systems designed for Armed Forces and Law Enforcement. REDO develops and manufactures equipment and gear for the army, special forces, police, firefighters, and security agencies including rucksacks, ballistic vests and bulletproof helmets, bags, vests, combat wear for special army units and SWAT units, cases and packaging for ammunition, rearms, and various equipment, mobile field beds, etc.**

**At REDO we provide flexible options to our clients: products can be made to your exact specifications or you can defer to our in-house R&D team to design a full product line for you.**

**Examples of references:**

**Army and police of Germany, Austria, Czech Republic, Switzerland, Holland**



**REDO is distributor of Active Carbon Bandages**

**The Active Carbon Bandage is a sterile bandage with activated carbon in micro-filament form with increased absorption induced by an osmotic gradient.**

## **Contact:**

🏠 **Tovarni 582/9, 798 11 Prostejov - Vrahovice, Czech Republic**

🌐 **www.redo.cz**    ✉ **redo@redo.cz**    ☎ **+420 582 330 912**

