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**FUTURE  
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FORUM**

International Platform  
for Trends & Technologies  
in Defence & Security



17 - 19 OCTOBER 2018

**CATALOGUE 2018**

PRAGUE, CZECH REPUBLIC

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## Word from the Future Forces Forum Managing Director

Ladies and gentlemen, business partners, FFF participants and supporters,

This October, Prague will again become the meeting centre of domestic and foreign defence and security leaders and specialists under the already established Future Forces Forum (FFF).

Domestic and international institutions and organizations taking part in its professional focus, aiming at the most effective cooperation of the public and the private sector are closely involved into the preparation of this long-term, continuous project to support the interests of industry, government, science, research and education, linking both the military and civilian sectors. Among the most important institutions with stable involvement are the Ministry of Defence of the Czech Republic and the Army of the Czech Republic, the Ministry of Interior of the Czech Republic, the Police Presidium, the Fire Rescue Corps, the Prison Service, the Customs Administration and other important state bodies. We also rely on broad institutional support and the professional involvement of many scientific and research organizations. Many leaders of the Alliance countries and their partners, EU structures and representatives of world security are again heading to Prague.

The current security situation, as well as the challenges and risks in this area in the coming years, increasingly require a comprehensive approach and international cooperation to prevent these risks, or eventually to address them. Our project fully reflects these needs and offers a unique venue along with an ideal environment for experts from around the world to meet and discuss. By broadly compiling actions and activities at a high political, military and security level, including the formal deliberations of expert working groups, FFF deliberately fulfils this intention.

The Future Forces Forum is constantly expanding and has broadened of other expert events, some of which have been divided into strategic and operational levels, the number of expert working group meetings has grown, exhibitors have increased, and some novelties will be introduced for the first time. We also focused on the auditorium and we are successfully trying to bring in more and more significant participants. We believe that the potential of our forum will grow further, and that it will mean more knowledge, more contacts and overall greater benefits to all of you.

In the framework of the exhibition, professional program, static and dynamic demonstrations, participants will have the opportunity to be directly introduced to the latest technologies in armament and equipment of the armed forces and other security forces, means of protection



against weapons of mass destruction, critical infrastructure protection, population protection, unmanned and robotic technologies, capabilities that can be used in migration measures, border protection, defence against terrorism, principles of cyber security and ethics, crisis management systems, military-civilian cooperation (CIMIC), logistics solutions (Smart Energy, water and fuel security, storage, transport), the use of innovative materials and others.

The FFF is a platform for meeting leading experts, research and development staff, academia and representatives of the acquisition offices with industry and business representatives establishing contacts and developing cooperation to ensuring the necessary defence and security at national and international level. It presents the interests, needs and acquisition plans of armed forces, corps of the Integrated Rescue System (Police, Fire Rescue Corps, and Emergency Health Services), prison services and other uniformed units, domestic and foreign state administration, self-government, industry, latest science, research and education results. It interconnects and transforms the targeted public and private sector interest into effective long-term cooperation.

Finally, let me thank all top representatives both from the Czech Republic and abroad, all our partners, especially LOM PRAHA and VOP CZ, the Czech Technical University (ČVUT), for the very important support, which we highly appreciate. I would also like to express my wish that this year's thirteenth continuation of the Future Forces project in Prague brings once again to its participants many valuable insights and new contacts, business opportunities and overall professional enrichment. I believe that the Future Forces Forum will build on the undisputed success of the past years and will once again become a welcome opportunity for a joint meeting in a friendly work atmosphere.

On behalf of the entire Future Forces Forum team, I cordially invite you to take part of the FFF and look forward to seeing you in Prague.

**Daniel KOČÍ**

Chief Executive Officer of FFF

## Word from the Chairman of the NATO Military Committee

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Ladies and gentlemen,

I am happy that I can support, in my capacity of the Chairman of the NATO Military Committee, the FUTURE FORCES FORUM project. Events such as the FFF contribute to the exchange of information among experts in various fields and provide a unique opportunity to get acquainted with the latest trends in the realm of defence and security. Thanks to projects such as the FFF, we can deal with present and future threats and risks more successfully.

Present developments in the area of security bring new dynamics both in the performance of defence tasks and in the development of defence concepts which require the most modern and comprehensive approaches and effective international cooperation making use of the latest knowledge.

NATO is actively supporting and promoting an innovative approach dealing with present and potential future threats. Within the Alliance, the lead role in the field of innovation is performed by the Allied Command Transformation (ACT) located in Norfolk, United States. ACT analyses trends and future security risks and uses results of the analyses to define recommendations and requirements that will be placed on Allied Armed Forces in the future. At the same time, it identifies opportunities of how Armed Forces of the NATO member states could contribute to the future security environment, such as enhanced cooperation, use of new technologies, or a better understanding of the human aspects of warfare. The aim of all the activities mentioned above is to provide a long-time perspective for the Alliance, and thus support NATO's defence planning process and all related processes, ensuring the continued relevance of NATO's Armed Forces.

The FFF project is particularly valuable in addressing not only military elements, but also a number of other relevant players that are indispensable for a comprehensive approach to present and future security issues.

I am convinced this year's FFF will provide a wealth of valuable information and create contacts for all participants. Leaving the FFF this year, we will be able to have a better understanding of the dynamically developing security environment and be better prepared to ensure our defence and security.

**GEN Petr PAVEL, M. A.**

Chairman of the NATO Military Committee

## Word from the Prime Minister of the Czech Republic



Ladies and gentlemen,

Last year, the Czech Republic was ranked as the sixth safest country in the world according to the Global Peace Index criteria. Strengthening security is one of the six strategic directions of the Government of the Czech Republic which will strive to maintain such a positive ranking in the years ahead.

The content and focus of the Future Forces Forum 2018, taking place under my auspices, can foster the implementation of the Government Programme and at the same time, it may serve as a global linkage of defence and security networks, with a significant international outreach. As it is attended regularly by a high number of foreign security experts and entities, it is gaining a growing prestige within the national as well as foreign security community.

The Forum is primarily focused on practical support of the Czech Government's interests, mainly in areas such as export-oriented capabilities of the Czech defence industry, export-oriented capabilities of Czech science, research and education, efficiency of defence and security spending, prevention measures in the field of defence and security, preparation and training of Czech citizens for emergency situations, fostering the investment potential in the area of defence and security in the territory of the Czech Republic and support for regional security.

At the 2014 NATO Summit in Wales, the Czech Republic endorsed the commitment to increase its military spending to 2% of the gross domestic product. For the Czech Government, this means not only to step up the expenditure on defence and security, but also to spend those resources efficiently and economically on development of the existing and future capabilities of the Armed Forces of the Czech Republic. Our commitment to achieving the 51 adopted goals for building capabilities as part of the NATO Defence Planning is the main priority for us. The goals include building a medium weight brigade, air defence or cyber defence capabilities. Our country must be a reliable and trustworthy member of the international community in the area of security.

The Forum can contribute to defining new trends in the development of the operational and security environment, which will reflect in the capability requirements and their practical implementation. Providing a new perspective on the current problems and searching for innovative approaches to addressing military and non-military threats such as hybrid warfare, cyber attacks, illegal migration and lack of strategic resources are the conclusions and outputs I expect from your discussions. I believe that the conclusions from your meeting will help improve the readiness of the national security system to respond to crises, and will help enhance and give a correct direction to building new capabilities of the armed forces during the update process of the Concept of the Build-up of the Armed Forces of the Czech Republic.

I take a very positive view of the overall concept of the project that emphasises the necessity to comprehensively address the current threats such as terrorism, hybrid warfare or cyber attacks as well as future threats that may include extensive blackouts, lack of raw materials or disturbances to the European security order. The boundaries between the various domains are blurring and the need for proactive approach, prevention and cooperation among all components of the defence, security and rescue integrated system is coming to the forefront.

It is beneficial that the topics to be discussed at the Forum reflect the main objectives of the Government Programme for this period in areas of support of the Czech defence industry, readiness of the population to respond to crisis situations, or prevention in the area of defence and security.

Defence and security have been discussed for a long time but practical steps must be taken: purchasing new military equipment and investing in personnel in line with the Concept of the Build-up of the Armed Forces of the Czech Republic, implementing the assigned capability building targets which we committed to in 2017 as part of the NATO Defence Planning, responding to new threats through updating and improving the national system of crisis management, improving the IRS capabilities and, enhancing the level of coordination - through crisis management training- of all components of the national security system ensuring our internal security.

I believe that your active participation and exchange of personal experience will contribute to make this year's, already thirteenth Future Forces Forum successful. The significant participation of foreign and domestic experts may produce new contacts that will enable a deeper discussion on new threats inside the whole security and defence community.

**Andrej Babiš**  
Prime Minister

## Word from the First deputy Prime Minister, Minister of the Interior of the Czech Republic

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Ladies and Gentlemen,

While the Czech Republic continues to be one of the world's most peaceful countries, it is also part of a world which has become less predictable and less secure.

In order to better respond to a multitude of security threats and challenges, the Czech Republic has solidified the NATO Wales summit pledge and has committed to spend 2 % GDP on defence by 2024 and to increase investment in defence capabilities. Our public is increasingly aware that security is not to be taken for granted. Without the necessary investment, our defence and security forces would not be able to perform its share in the collective defence of NATO, to contribute to projecting stability in NATO neighbourhood, or to counter terrorism.

The current international security environment stimulates the demand for innovative and more efficient solutions. The long-standing tradition of the defence and security industry in the Czech Republic complemented with a technological leadership, knowledge of the customers' needs and dynamism of our companies as an "industry standard" -

these are the necessary prerequisites for success on international markets. Growing volume of defence exports reflects both the ambition of our companies as well as excellent level of our bilateral relations with a broad spectrum of international partners.

Last year's figures clearly illustrate this trend: the Czech export control authorities approved the licences worth 800 million Euro - the second-best result in the modern history - and the Czech companies exported defence and security products worth 570 million Euro, also the second-best result.

I am proud that the current edition of the Future Forces Forum is taking place again in Prague. Our success on international markets has also to do with transparency and credibility of our licensing policies. I am convinced that only a responsible behaviour of both governments and exporters can guarantee that international markets remain lucrative, competitive and open.

I am confident that this year's series of the Future Forces Forum will build on the successful tradition of previous meetings and that it will facilitate an active engagement among allied and partner countries, international organizations, private sector, academia and other relevant stakeholders across the globe. I am also sure that it will contribute to the reputation of the Czech Republic, its industry, technology and services. I expect it will pave the way to new security deals and cooperation.

I wish you a successful meeting!

**Jan Hamáček**

First Deputy Prime Minister, Minister of the Interior

## Word from the Police President of the Czech Republic

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Dear Ladies and Gentlemen,

At the outset, let me express my sincere pleasure at the Police of the Czech Republic being here for the second time and having the chance to present themselves on such a significant event, which the Future Forces Forum project undoubtedly is.

The Police of the Czech Republic, as the largest security force in the Czech Republic, have their say towards the topics of defense and security but, at the same time, can learn a lot in the area of Science, Research and Education. We have been trying to modernize and professionalize the police force not only in the personnel area but in the technology area as well for a long time. An illustration of this is the recent purchase of specialized intervention armored vehicle, vehicles with thermal imaging cameras, spectrometers and chromatographs for expert workplaces and another modern technical equipment. Future

Forces Forum project offers not only to us but also to all legal entities involved in the areas of protection, defense and security the possibility to draw new inspiration and share valuable information and good practice.

We live in times in which nearly the whole world suffers from terrorism, migration, extremism, cybercrime and from other modern security threats. The security and defense is the top priority for the Czech Republic even though, according to the European measures, we are the fifth safest country in the world and we took seventh place out of 163 states. Together with the Armed Forces of the Czech Republic and other Integrated Rescue System responders active during extraordinary events, we must not ease off and I guarantee, on behalf of the Police of the Czech Republic, that we do our best to at least hold up our position in the Global Peace Index ranking.

There is no other way but to express my wish that the security of our country may remain the priority and the Police of the Czech Republic would move forward the same as the adverse emerging modern security threats. To conclude, on behalf of the Police of the Czech Republic I would like to show appreciation towards the Future Forces Forum project organizers for the chance to attend this event and for their responsible approach in the area of security and defense. For the most part, may all attendees and visitors enjoy this event to its fullest and achieve the desired outcomes.

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

## Word from the Minister of Defence of the Czech Republic



Dear Ladies and Gentlemen,

The Future Forces Forum project, which I hold under the patronage, is entering thirteenth year of existence and it is my pleasure to inform you that the Ministry of Defence has traditionally been one of the major co-organizers of this important event. It is a project that enables members of the armed and security forces and at the same time academics and professionals to familiarize themselves with the latest trends and trends in defence and security.

The importance of the Czech Ministry of Defence's support to the FFF is twofold. The outputs of this project have, on one hand, the potential to ensure to our armed forces the conditions and means for effectively building the defence capabilities and for fulfilling international obligations in the field of defence and security within the appropriate political, legal, financial and military aspects. In the long run, the FFF project also brings valuable insights and establishes important partnerships that make the Ministry of Defence more efficient in securing the technological maturity of our armed forces.

The interest of the Czech Republic is to contribute as much as possible to the collective security system of the North Atlantic Alliance, the commitments declared in this matter represent one of the main priorities. Equally important for us is the current trend of strengthening the strategic autonomy of the European Union in the field of defence and increasing defence capabilities of individual member states, both materially and in terms of ability to conduct foreign operations.

The basic building blocks of our approach to security are consistent-

cy, systematicity and transparency. A successful security policy cannot be implemented at a time of immediate crisis - it is a long-term and continuous process that requires a thorough analysis of the security environment and comprehensive preparation for possible future crisis situations.

In many cases, this process will not reach the intended effect without international cooperation. Due to the ever-accelerating development of defence concepts and technologies, and also because of new, worse-than-expected threats such as hybrid warfare, ongoing and deepening cooperation in foreign, security and economic policy is far more critical to maintain the high pace than ever was.

In addition to political and diplomatic instruments, national defence capabilities will undoubtedly remain one of the key factors in crisis management. Priority in ensuring defence and security will therefore continue to be the development of the state defence system and the armed forces with the maximum possible support of domestic defence industry, as well as the research and development capacities.

One cannot forget the increased emphasis on building civil-military relations, notably through initiatives to raise citizens' awareness of the functioning of the Czech Republic's defence and on the possibilities of the civil sector contribution to its provision.

The Future Forces Forum, therefore, addresses not only the force components, but also the public administration, science and research community, academics and companies working on projects of public interest. The Czech Army's current state and objectives of development will be fully demonstrated to the domestic and foreign professional public.

I am convinced that the thirteenth year of the Future Forces Forum will bring all the participants with the maximum amount of new knowledge and valuable contacts. I believe that this year's varied program, following the outputs of the previous year and at the same time covering current trends and new areas, will once again shift defence-security cooperation in the Euro-Atlantic area forward.

**Lubomír METNAR**

Minister of Defence

## Word from the Chief of the General Staff of Czech Armed Forces



Dear participants in the Future Forces Forum,

I am pleased that after two years the Future Forces Forum project brings into Prague a unique opportunity for meetings and networking among leading Czech and international defence and security experts, politicians, diplomats, the military, academia, science, research and industry. That is also the case in 2018, when we commemorate the centenary of the establishment of the state of

Czechoslovakia as well as 25 years of the existence of the Czech Republic.

In the context of global security developments, this year's edition of the Future Forces Forum showcases the modern shape of our armed forces. We focus specifically on communication systems, reconnaissance elements, unmanned and robotic technologies, electronic warfare assets and application of modern technologies in combat and support equipment. Individual services also

have their dedicated displays. A special focus is traditionally on our national specialisation - protection against weapons of mass destruction, military medicine and logistic support.

The display of the Czech Armed Forces symbolically fuses into individual specialist conferences and workshops, which is where I believe the Future Forces Forum project brings in the highest value added. Networking among the Czech and international experts entering the domain of security technologies in individual phases of their life cycle from research and development, through manufacture, application and fielding, always yields productive discussions. That is fully in the context of our enduring endeavour to act as a positive, active and constructive international security player.

I would like to wish all visitors, organisers and guests of the Future Forces Forum project every success, much new inspiration and an enjoyable stay in Prague.

**Lieutenant General Aleš Opaťák**

Chief of General Staff Czech Armed Forces

## Word from the General Director of the Prison Service of the Czech Republic



Ladies and gentlemen, dear guests,

It is a great honour for me that the Prison Service of the Czech Republic participates at the Future Forces Forum in 2018 again. It is a unique and beneficial professional international platform that brings together specialists from the fields of security and defence, representatives of security forces, state administration and public authorities.

Since its participation at FFF 2016, the Czech Prison Service has made a great progress in the field of armament, technical equipment and technological development as well as in the sphere of social respect and generally positive public image of the service.

Over the past years, we have managed not just to stabilize our organization but also implement a number of changes. We have brought the Czech penitentiary system up to the standards of many developed countries in Western Europe. At the same time, we have also achieved to follow in high professional standards applied in our country before WWII. A long-term conception of system development was approved and we have started implementing its solutions. Among those it is necessary to mention reduction of the four types of prisons to two which allows effective placement of inmates into different prison regimes and better assessment of their personal efforts for their own rehabilitation. Further on to point out commencement of a unique Open Prison

pilot project which stresses the self-responsibility of inmates for preparation for release and life outside the walls.

The Prison Service of the Czech Republic has extended its international relations, particularly with European prison administrations, on the level of bilateral collaboration but also through active membership in professional organizations such as EuroPris, ICPA or MECR.

Regarding the technical equipment we have started to renew our armament purchasing Czech arms, particularly EVO machine guns. We are preparing a number of pilot projects involving a use of new detection systems preventing contraband smuggling into prisons. We are exploring systems of protection from unmanned aerial vehicles which we would like to install in larger prisons or those in complex terrain conditions. Further on I can name full videoconferencing network covering the whole country, new system facilitating phone calls of inmates, new uniform components for uniformed staff members or modernization of our vehicle fleet, including the armoured vehicles.

I am convinced that the Prison Service of the Czech Republic participation at the Future Forces Forum in autumn 2018 will be as successful as the previous one and I am looking forward to meeting all the partners of this significant international event.

**Maj. Gen. Petr Dohnal**

General Director of the Prison Service

## Word from Director General of the Fire Rescue Service of the Czech Republic



Dear friends,

Due to the development of industrial technologies, energy industry, transportation, environmental encroachments, or extreme weather phenomena, the portfolio of activities of the Fire Rescue Service of the Czech Republic has significantly expanded, now including not only firefighting, but also technical and technological interventions, traffic accident assistance, or interventions in the event of natural disasters, or other emergencies. At the turn of the millennium, other tasks, such as protection of population, civil emergency planning, coordination of the Integrated Rescue System, and crisis management, were added to interventions and activities related to the performance of state fire supervision.

The continuously increasing number of natural disasters and man-caused emergencies (migration crisis, terrorism, war conflicts, including attacks using chemical weapons) and their increasingly grave consequences demand an integrated approach reducing the impact of the undesirable phenomena listed above. This was the reason why a document titled "Strategy of the Development of the Fire Rescue Service until 2021, with an Outlook until 2030", was presented earlier this year. As a matter of fact, today's hectic times require conceptual and long-term solutions rather than simple and short-term ones. And the former are exactly what the new strategy of the Fire Rescue Service of the Czech Republic intends to bring.

Thanks to its tireless work, the Fire Rescue Service of the Czech Republic has become a respected and modern organization the principal strengths of which include a combination of versatility and narrow specializations, a feature shared by all members of our service. In my opinion, the service is now a professional organization synergically combining its traditional firefighting role with security requirements of a modern society. One of the typical characteristics of such a so-

ciety's security is, inter alia, a high level of its interrelationship with, and dependence on, developments of the international/global security environment, which fact also has a direct impact on tasks of the Fire Rescue Service of the Czech Republic - including the preparedness to deal with consequences of terrorist attacks or tasks related to protection of population (civil protection and civil defence) also in military emergencies and crises.

Today's interconnected and networked society is increasingly vulnerable, and therefore facing new challenges with respect to the protection of population and its infrastructure. These are reflected in new approaches of the society not only to dealing with consequences of negative events, but mainly in their prevention and material and technical preparedness to successfully cope with them.

Speaking of the latter, I would like to emphasize the importance of the development of the equipment and materiel base of all elements of the Integrated Rescue System. Thanks to our positive experience, we are interested in continuing cooperation with our proven domestic and foreign suppliers of high-quality intervention gear, equipment, and vehicles. Another - and increasingly important - factor is close international cooperation, i.e. neighborly bilateral and multilateral support, including material and humanitarian assistance.

The Future Forces Forum event is a global platform where all concerned parties can share and exchange information and present the latest technologies, materials, and procedures in the field of security. FFF is also an international forum where defence and security experts, representatives of security corps and elements, and representatives of governments and public authorities can meet.

I am pleased to be able to tell you that the Fire Rescue Service of the Czech Republic will again participate in the Future Forces Forum 2018 international exhibition and fair of defence and security technologies this year. The presence of the Fire Rescue Service will include not only static and dynamic demonstrations of firefighting and rescue equipment and procedures, but also active participation in conferences which are an integral part of the event.

I believe this year's Future Forces Forum will rank among important meetings of security and defence experts from the whole world and enable the most progressive experience in these fields to be exchanged and shared.

**MG Drahoslav RYBA**

Director General of the Fire Rescue Service

## Word from the President DSIA of the Czech Republic

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Dear ladies and gentlemen,

It is my great pleasure and honour to contribute to the 13th year of Future Forces Forum - the international platform for trends and technologies. FFF is a unique project that enables the view on the defence and security field from different perspectives and is focused on wide scale of areas that are interconnected with the aim of providing unique platform gathering experts from the defence and security field under one roof. I am glad that this year's FFF attracts many international experts and enables high-quality debates within the specialized programme and highlights the prestige of the Czech defence and security industry.

The term security nowadays means something completely different than it meant years ago. Negative determination defines security as the state of being free from danger or threat. That would unfortunately

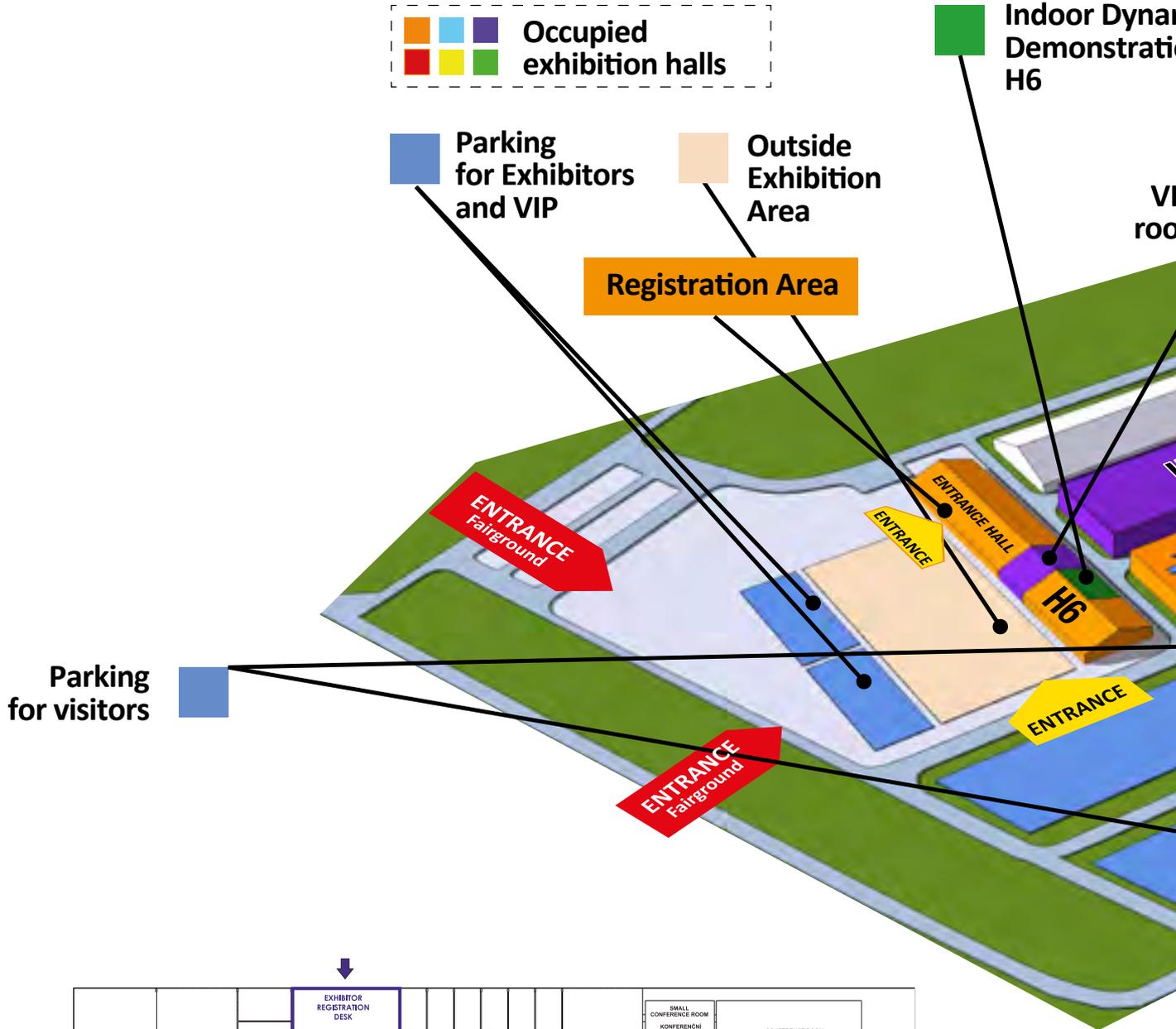
mean that security does not exist anymore. Europe of today is threatened. It is threatened existentially, on many levels and mainly by its own approach to threats. We might be the sixth most secure state in the world, but that should not calm us down. The maintenance of the secure state status is more and more difficult these days and EU policy is not helping us with it at all.

Dynamics taken up nowadays by defence and security industry has many advantages. Companies are being pushed to keep up with global trends and evolve constantly otherwise they will not be able to cope with the pressure of their competitors. Investment to research and development is increasing as well as the public interest in the area of defence and security. Czech companies are proving over the long period that they are competitive on the global market, they can specialise themselves wisely and thus bring added value to the defence and security industry on the international level. I am proud that I can claim this for many years already and that this claim is gaining more and more significance every year.

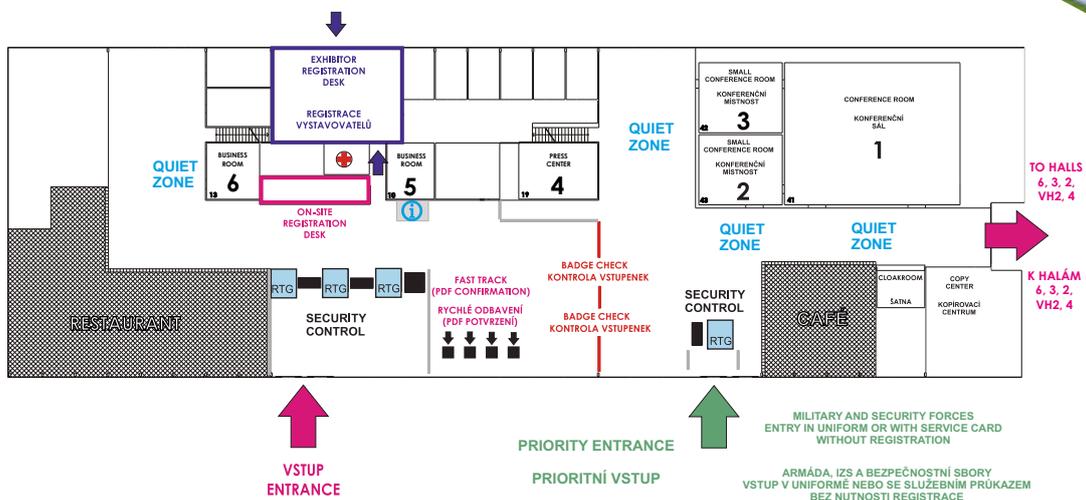
I believe that FFF will show its participants the whole scale of options for investment into the future of the defence and security and will become unique opportunity for getting new contacts, experience, new approach to the security and its future in the Czech Republic, in Europe and globally.

**Jiří Hynek**  
 president DSIA

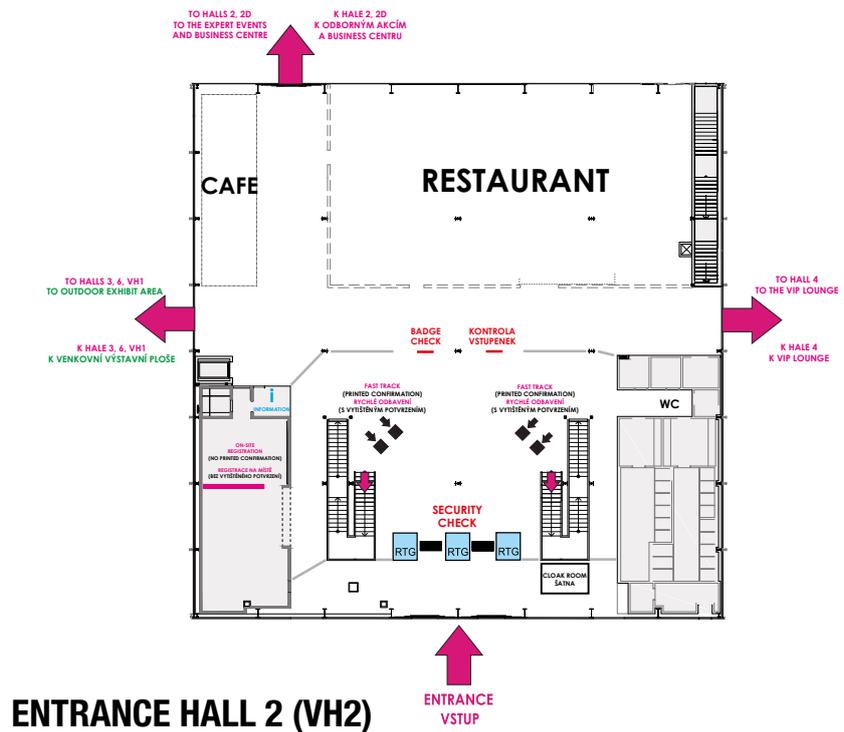
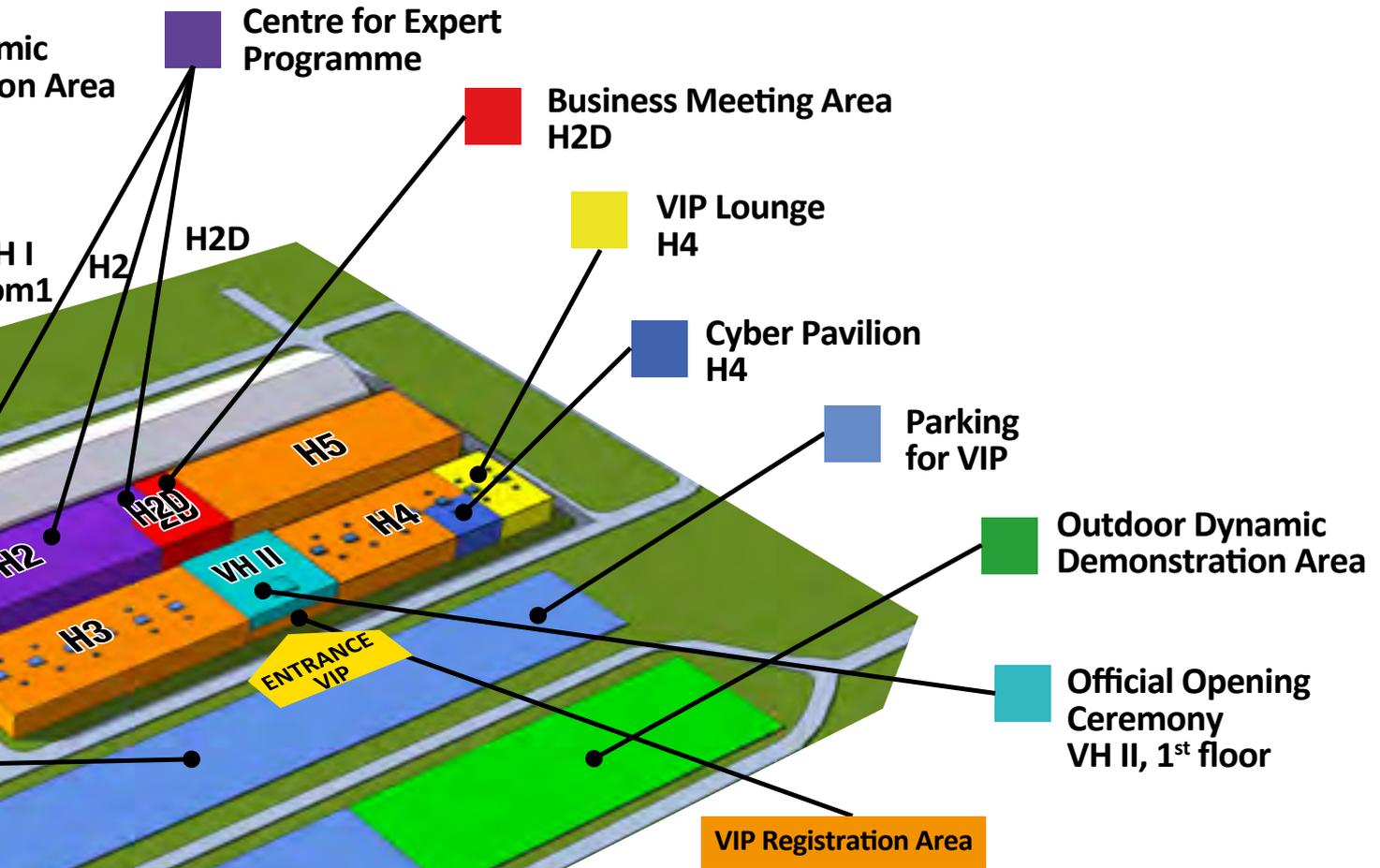
# FAIRGROUND PLAN



Parking for visitors



**ENTRANCE HALL 1 (VH1)**



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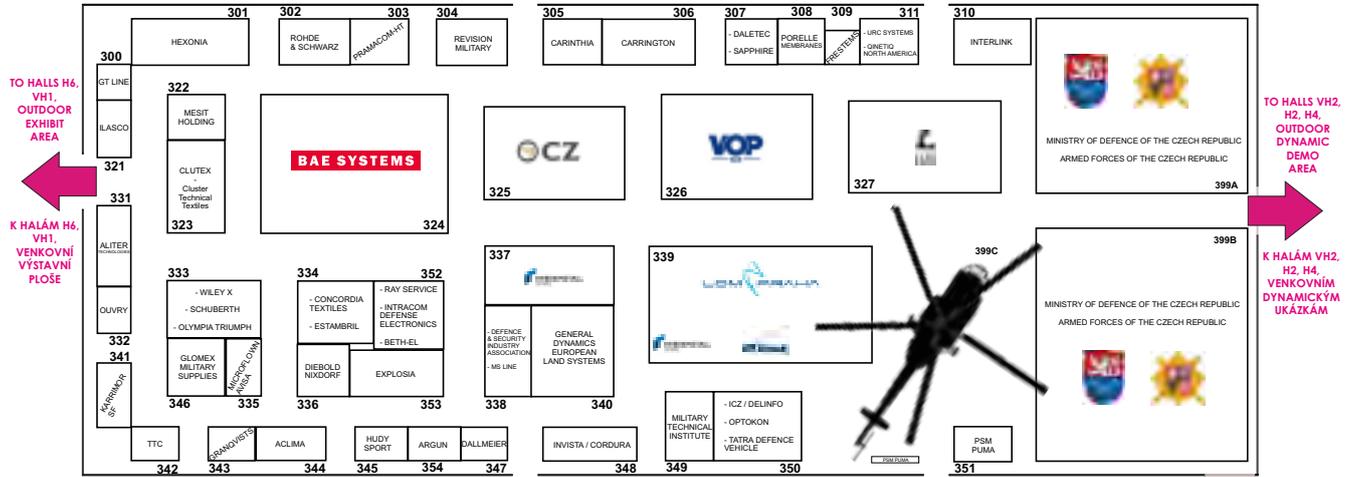


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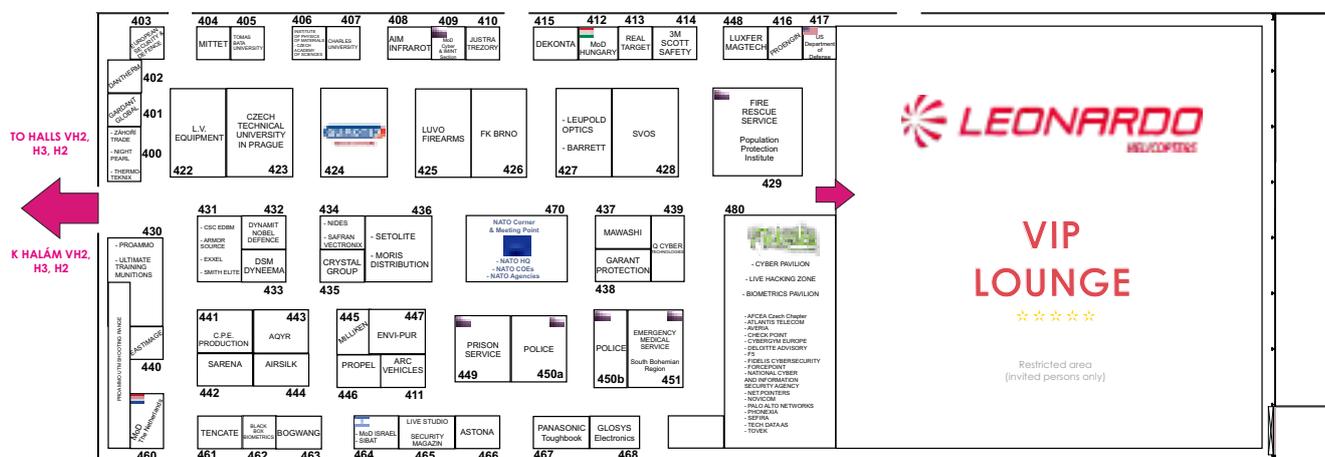
Future Forces **Exhibition**

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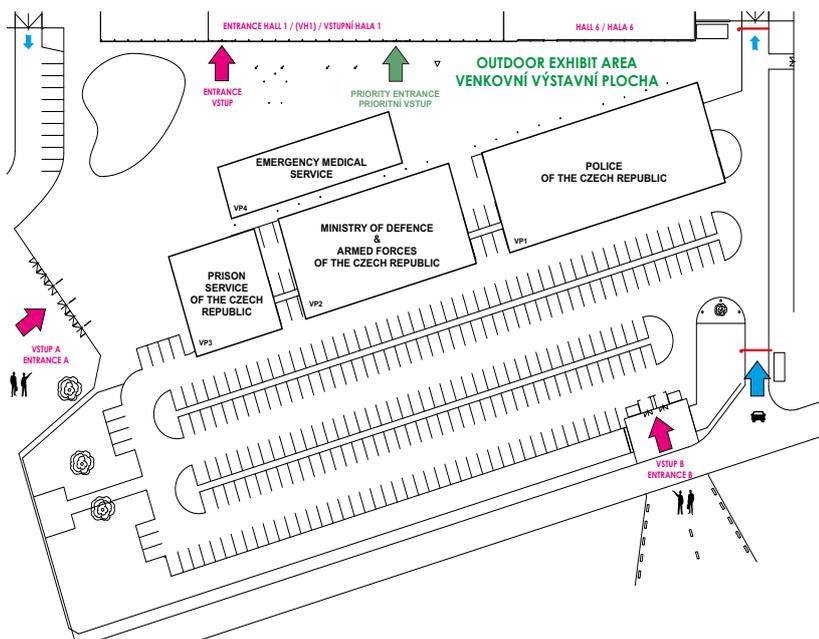
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CYBERGYM EUROPE, a.s.  
DELOITTE ADVISORY s.r.o.  
F5 Networks  
FIDELIS CYBERSECURITY  
FORCEPOINT  
Ministry of the Interior / Ministerstvo vnitra  
NET.POINTERS s.r.o.  
NOVICOM, s.r.o.  
PALO ALTO NETWORKS  
PHONEXIA  
Police Academy / Policejní akademie  
TECH DATA AS Czech s.r.o.  
TOVEK, spol. s r.o.  
University of Defence / Univerzita obrany

## Outdoor Exhibit Area



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Region / Zdravotnická záchranná služba  
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POLICE of the Czech Republic ..... 450A + 450B + VP  
PRISON SERVICE of the Czech Republic  
/ Vězeňská služba České republiky ..... 449 + VP  
MINISTRY OF DEFENCE of the Czech Republic  
/ MINISTERSTVO OBRANY ČR ..... 399A + 399B + VP

## 3

### 3M Česko, s.r.o.

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[www.3m.cz/oopp](http://www.3m.cz/oopp)

We are united in our purpose to help protect soldiers, firefighters and workers in hazardous industrial environments, so they can keep getting their jobs done and keep coming back home safely.

We strive to set the standard for confidence and trust by providing rugged, reliable and comfortable protective equipment.

*Represented companies and brands: 3M Peltor, 3M Scott Safety, 3M Speedglas, 3M Scotchlite, 3M Thinsulate*

**Hall: 4, Stand: 414**

## 4

### 4M SYSTEMS a.s.

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Czech Republic  
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E-mail: [info@4msystems.cz](mailto:info@4msystems.cz)  
[www.4msystems.cz](http://www.4msystems.cz)

4M SYSTEMS a.s. is the designer, manufacturer and vendor of tactical gear for the armed forces (military, police, customs, prison service, border protection, etc.).

Our know-how is based on extensive and long-term experience of our team members, former members of army special units and police task force, who participate in development and constant improvement of our products. Our product differ from the competence in design, unconventional solutions and user comfort.

**Hall: 3, Stand: 325**

## A

### ACLIMA AS

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Norway  
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E-mail: [aclima@aclima.no](mailto:aclima@aclima.no)  
[www.aclima.com](http://www.aclima.com)

Designer and producer of thermal underwear. Flameretardant, antistatic, insulating Main component is merinowool. Chosen by special forces and regular army in the Nordics. Made in Europe.

**Hall: 3, Stand: 344**

### AFCEA Czech Chapter

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AFCEA Czech chapter is a member-based, non-profit association for professionals that provides highly sought after thought leadership, engagement and networking opportunities. We focus on cyber, command, control, communications, computers and intelligence to address national and international security challenges.

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**FGC and Biometrics Conference Executive Guarantor**

### Agentura vojenského zdravotnictví AČR

see Military Medical Agency Czech Armed Forces

Czech Republic  
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### AIM INFRAROT-MODULE GmbH

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[www.aim-ir.com](http://www.aim-ir.com)

AIM is a leading supplier of advanced IR-detectors and thermal sights. Outstanding e/o performance and minimum size, weight and power meet the requirements of challenging military applications. AIM shows the new HuntIRSW with extended SWIR range.

**Hall: 4, Stand: 408**

### AIRBORNE SYSTEMS North America

United States of America  
[www.airborne-sys.com](http://www.airborne-sys.com)

**Hall: 3, Stand: 346**



## Akademie věd ČR, v. v. i.

Czech Republic  
[ssc.cas.cz](http://ssc.cas.cz)

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## ALITER TECHNOLOGIES, a.s.

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



In the Defense & Security area, Aliter Technologies delivers products and solutions intended for use by armed forces, homeland security, police, civil protection, emergency rescue teams, crisis management staffs, and other organizations involved in response to military and non-military crisis situations. Our solutions are designed in accordance with both NATO and international standards, and are rapidly deployable, highly mobile and autonomous in nature.

**Hall: 3, Stand: 331**

## AQYR

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



AQYR designs and manufactures highly portable GBS and 2-way Ku/Ka/X-band full auto-acquisition, single-case, portable ground terminals. These

intuitive, patented, auto-acquire terminals are used by Defense, NGOs, Public Sector, Foreign Governments, Commercial & Enterprise markets. AQYR is THE land terminal provider for Tactical SATCOM Solutions.

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## ARC VEHICLES s.r.o.

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E-mail: [info@arcvehicles.cz](mailto:info@arcvehicles.cz)

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

ARC Vehicles s.r.o., which is exclusively a Czech company, is a supplier of special road vehicles. The portfolio includes vehicles from road ambulances of all categories, firefighting, command and special technical cars, service vehicles, mobile workshops to vehicles for the transport of disabled persons. The company offers a range of equipment and accessories for special vehicles.

*Represented companies and brands: Modul-System, PROFILE Vehicles, RAM MOUNTS, Nanosilver, Nanotechnologi, Medicomplet, STEELER, OKB*

**Hall: 4, Stand: 411**

## ARGUN, s.r.o.

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Czech Republic

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

ARGUN Company is more than 20 years internationally well-known producer



of bulletproof vests, ballistic helmets and anti-riot equipment for military, police and security services. ARGUN is supplying to the Czech Army, Czech Police and others. In the last years, ARGUN supplied to more than 30 countries worldwide. ARGUN is able to develop products according customers needs.

**Hall: 3, Stand: 354**

## ARMOR SOURCE

United States of America  
[www.armorsource.com](http://www.armorsource.com)

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## ARQUUS

France  
[www.arquus-defense.com](http://www.arquus-defense.com)

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## ASOCIACE OBRANNÉHO A BEZPEČNOSTNÍHO PRŮMYSLU

see Defence and Security Industry Association

Czech Republic  
[www.aobp.cz](http://www.aobp.cz)

**Hall: 3, Stand: 338**

## ASTONA - Lubomír Miček

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Fax: +420 572 642 151  
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[www.astona.cz](http://www.astona.cz)

Since foundation of the company in 1992 we have been specialising in custom-made production of professional as well as working clothes. In our product portfolio there are included clothes for waterproof, chemical, outdoor and leisure time activities. Our products are commonly used in military sector, emergency and government services and many other branches.

We also have certification EN ISO 9001:2009, ČOS 051622 (AQAP 2110).

Categories of offered products:

professional clothes – army, police, emergency services, custom administration... working clothes – craftsmen, assemblers, fitters, road builders, railway operators, agriculture, civil engineering, quarries... waterproof, food-processing and chemical clothes – fishing, chemistry, food-processing... outdoor and leisure time activities – winter sports, hunting, fishing, hiking, forestry...

**Hall: 4, Stand: 466**



a Hewlett Packard  
Enterprise company

## ATLANTIS TELECOM spol. s r.o.

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Tel: +420 725 210 394  
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[www.atlantis.cz](http://www.atlantis.cz)

Atlantis is a value added distributor of leading unified communications, network infrastructure, data center and security solutions with a loyal network of reliable partners covering service providers, system integrators and specialized resellers. We assist resellers and system integrators of all sizes in every phase of the sales cycle.

*Represented companies and brands: Aruba a Hewlett Packard Enterprise Company*

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We create b2b communities.

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## B

## BAE SYSTEMS

### BAE SYSTEMS

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

At BAE Systems, we help our customers to stay a step ahead when protecting people and national security, critical infrastructure and vital information. We search for new ways to provide our customers with a competitive edge across the air, maritime, land and cyber domains.

We employ a skilled workforce of more than 83,000 people in over 40 countries, and work closely with local partners to support economic development by transferring knowledge, skills and technology.

BAE systems will showcase a range of capabilities across land and sea at this year's Future Forces 2018, including two full size CV90 Infantry Fighting Vehicles. BAE Systems is offering the combat-proven CV90 to the Czech Republic as part of the BMP II Replacement Programme.

Also on display are the ARCHER Artillery system, a 155mm howitzer gun system which operates off of a wheeled platform, and BONUS, a 155mm artillery-launched, sensor-fused munitions shell that can successfully combat any armoured vehicle from Main Battle Tanks to Armoured Fighting Vehicles, and self-propelled artillery.

**Hall: 3, Stand: 324**

## BARRETT

PO Box 1077, Murfreesboro, TN, 37133  
United States of America  
E-mail: [orders@barrett.com](mailto:orders@barrett.com)  
[www.barrett.net](http://www.barrett.net)



More than thirty years ago, Ronnie Barrett built something no one thought possible - a shoulder-fired .50 caliber rifle so innovative, the Army itself would sing his praises. From sketching his designs at the dining room table to working with a local tool and die maker to create parts that didn't yet exist,

every millimeter of the Model 82 was a direct result of Ronnie's passion for the ultimate firearm.

That obsession still fuels our company today.

Headquartered in Murfreesboro, Tennessee, Barrett is the world leader in large-caliber rifle design and manufacturing. Our products are used by civilian sport shooters, law enforcement agencies, the United States military and more than 73 State Department approved countries across the world. The Barrett Quality Management System (QMS) has received the prestigious ISO 9001:2015 certification for the design and manufacture of firearms, ammunition, integrated ballistics computers and accessories, and to provide training for those systems.

No matter how successful we become, however, our story keeps evolving. Because, at Barrett, we don't believe in resting on our laurels. In fact, we take great pride in thinking outside the box and exploring ways to continue to improve. After all, if there's one thing our success has taught us, it's this: You're only as good as your last accomplishment.

It's one thing to manufacture guns, and another to live and breathe them. Whether we're carefully assembling our latest rifle, engineering scope rings that are stronger than ever or increasing the velocity and precision of the ammunition itself - we're always working with one goal in mind: "There's always a better way."

**Hall: 4, Stand: 427**

## BERGHAUS

United Kingdom  
berghaus.com

**Hall: 4, Stand: 422**

## BETH-EL Industries

P.O. Box 166, 1 Avshalom Road Zikhron Yaaqov, 3095101  
Israel  
Tel: +420 601 563 647  
E-mail: filip.chlachula@rayservice.com  
www.beind.com

Beth-El Zikhron Yaaqov Industries Ltd. is a leading designer, developer, and manufacturer of collective protection systems against Nuclear, Biological, and Chemical (NBC) weapons, Toxic Industrial Materials (TIMs), as well as a host of other products, such as explosion protection equipment, air-cleaners, and medical products, etc.

Distributor of Beth-El Industries for the Czech Republic is the company Ray Service, a.s.

**Hall: 3, Stand: 352**

## BLACKBOX BIOMETRICS

125 Tech Park Drive, Rochester, NY 14623  
United States of America  
Tel: +1 585 329 3399  
E-mail: scott.featherman@b3inc.com  
www.blastgauge.com

BlackBox Biometrics®, Inc. was founded in 2011 with the goal of providing objective data to aid the triage and medical treatment associated with today's signature war wound: traumatic brain injury (TBI). Today, BlackBox Biometrics continues to be the industry leader in measuring the unseen impact of concussive forces. Our talented team is comprised of like-minded individuals—in engineering, operations, and business—all with the collective goal of improving lives through the creation of innovative technology.

The Blast Gauge System. At the time when the Iraq War was nearing an end and the United States was ten-years into war in Afghanistan, over 200,000 U.S. service members had already been diagnosed with TBI. With nothing

available to measure the blasts that often cause undetectable head injuries, soldiers and medical personnel were forced to face the effects of these injuries with inconsistent and subjective data. Seeing this need and the opportunity to improve the lives of soldiers and their families, BlackBox Biometrics set out to Measure the Unseen. Funded by a DARPA grant, a small team assembled to develop a solution providing better triage data. The result was the Blast Gauge® System, a revolutionary sensor that has since been outfitted on U.S. Special Forces, the Army, and SWAT teams across the nation. Coupled with proprietary software, the complete system captures and interprets complex data associated with concussive events. Since its introduction, the Blast Gauge System has pioneered blast measurement enabling advanced research into the mechanisms of blast-related brain injuries and safe exposure levels.

**Hall: 4, Stand: 462**

## BO GWANG TEXTILE CO., LTD.

24, Gukchaebosangro 20gil, Seogu, Daegu  
Republic of Korea  
Tel: +82 10 3536 5052  
E-mail: youson@bogwang.co.kr  
www.bogwangint.com

We are a manufacturer of military uniform, protective workwear materials and other functional fabrics. Our technical skills are well recognized through technical collaboration with military uniform manufacturers in EU including UK, Spain, France, Bulgaria and Central-south American market such as Argentina and Colombia.

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**Hall: 4, Stand: 463**

## C

## C.P.E. Production Oy

Asentajankuja 3, 30300 Forssa  
Finland  
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E-mail: persab@online.no  
www.cpe.fi

**C.P.E.**

C.P.E. is a ballistic protection/ riot and training equipment manufacturing company headquartered in Finland and with a factory in Prague, Czech Republic.

C.P.E. is an ISO 9001, ISO 14001 and AQAP 2110 certified company with a sterling reputation for technological superiority and top quality manufacture. All our products are certified according to international standards.

C.P.E. is today the main supplier of ballistic vests to the Finnish Military Forces, and we supply a numbers of other NATO forces with top quality solutions. We have also won many tenders for Riot and Training solutions for Police, Prison services and Military Forces during 2018, some with long term contracts.

**Hall: 4, Stand: 441**

## Capability Planning Division, MoD

Czech Republic  
www.acr.army.cz

**FFISC Specialized Partner**

## CARINTHIA / Goldeck Textil GmbH

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[www.carinthia.eu](http://www.carinthia.eu)

CARINTHIA - a Trademark of Goldeck Textil GmbH

CARINTHIA stands for decades of experience in cold protection and insulation. Our products are 100% manufactured in Europe. In this way, the highest manufacture and quality standards of "Made in Europe" can be achieved.

For almost 70 years, our company has diligently focused on the production of sleeping bags and cold-weather protection clothing for all climatic zones and temperatures. Whether mounting an expedition in the Arctic / Antarctic, the most adverse conditions in the high mountains or damp night chill of the tropics.

The key to this success is our own premium synthetic fiber insulation, G-LOFT®. Developed by Goldeck Textil, and produced at the Seeboden headquarters in Austria, G-LOFT® is warm, light and breathable, even in worst extremes of wet and cold conditions.

*Represented companies and brands: G-LOFT®*

**Hall: 3, Stand: 305**

## CARRINGTON TEXTILES

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[www.carrington.co.uk](http://www.carrington.co.uk)

We are the largest producer of workwear fabrics in the UK, exporting to more than 81 countries worldwide, with over 60% of our products going to new markets. We produce over 55 million metres of fabric annually. Throughout Europe, and beyond, millions of people go about their tasks in workwear made from our fabrics.

Based in Lancashire, where British textiles began, we have over 125 years experience of textile processing and finishing. This is supported by massive investments in one of Europe's largest fully integrated textile processing and finishing operations.

We specialise in the development of fabrics and finishes with exceptional performance in the most demanding workplace environments. As a result, we have a reputation for innovation, and continue to introduce exciting breakthroughs.

New ideas to meet the most stringent performance requirements encountered in diverse areas such as heavy industry, light engineering, food processing, retail, distribution, pharmaceutical, healthcare and defence.

**Hall: 3, Stand: 306**

## Centre for Knowledge and Technology Transfer of the Charles University / Centrum pro přenos poznatků a technologií Univerzity Karlovy

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E-mail: [cppt@ruk.cuni.cz](mailto:cppt@ruk.cuni.cz)  
[www.cppt.cuni.cz](http://www.cppt.cuni.cz)

The Centre for Knowledge and Technology Transfer (CPPT) is an independent part of the Charles University that provides services and information in

support of knowledge and technology transfer and creates opportunities and the environment for their spreading in agreement with fulfillment of the third role of the university with the objective to increase its competitiveness and attractiveness for students, employees and general public.

The Centre is developing an innovation network of at the Charles University by interconnecting members of the academic community across all its faculties and organizational units. It is also developing the network through cooperation with innovative organizations outside the Charles University, intermediation of knowledge, experience, services, information and funds. For potential partners it serves as a gateway, guide and mediator.

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## ČESKÁ ZBROJOVKA

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Czech Republic  
Tel: +420 572 651 111  
E-mail: [info@czub.cz](mailto:info@czub.cz)  
[www.czub.cz](http://www.czub.cz)



Česká zbrojovka a.s. (CZ) has made its name as one of the leading manufacturers of firearms for service as well as civilian purposes in the world since its establishment in 1936. The current backbone of the production for the armed forces is the new generation of highly advanced CZ weapons: the brand new CZ TSR sniper rifle, the CZ BREN 2 assault rifle and the CZ P-10 C striker fired pistol. This year CZ P-10 C Optics Ready pistol is available. Its modified slide allows easy and highly stable attachment of modern miniature collimator sights.

**Hall: 3, Stand: 325**

## CHECK POINT Software Technologies Ltd.

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Israel  
Tel: +972 3 753 4555  
E-mail: [info@checkpoint.com](mailto:info@checkpoint.com)  
[www.checkpoint.com](http://www.checkpoint.com)



Check Point Software Technologies Ltd. ([www.checkpoint.com](http://www.checkpoint.com)) is a leading provider of cyber security solutions to governments and corporate enterprises globally. Its solutions protect customers from cyber-attacks with an industry leading catch rate of malware, ransomware and other types of attacks. Check Point offers a multilevel security architecture that defends enterprises' cloud, network and mobile device held information, plus the most comprehensive and intuitive one point of control security management system. Check Point protects over 100,000 organizations of all sizes.

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## CLUTEX - Cluster Technical Textiles

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Czech Republic  
Tel: +420 603 200 805  
E-mail: [founova@clutex.cz](mailto:founova@clutex.cz)  
[www.clutex.cz](http://www.clutex.cz)

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.

**Hall: 3, Stand: 323**

**CONCORDIA TEXTILES**

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Belgium  
Tel: +32 56 62 73 73  
Fax: +32 56 60 10 29  
E-mail: [info@concordiatextiles.com](mailto:info@concordiatextiles.com)  
[www.concordiatextiles.com](http://www.concordiatextiles.com)

Founded in 1925 Concordia Textiles has almost a century of expertise in textile manufacturing and finishing. As a completely vertical integrated textile manufacturer, we control the entire production flow, from sizing and warp beaming over weaving, dyeing, printing, finishing, coating and laminating fabrics. Concordia Textiles develops and produces textile solutions for selected professional markets. To ensure dedicated research and development together with high quality service, our organisation is divided into 3 Business Units: Workwear, Fashion and Specific solutions.

**Hall: 3, Stand: 334**

**CORDURA Fabric - INVISTA Textiles UK Ltd**

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and color abrasion resistance, as well as integral NIR performance capability. And CORDURA NYCO Tactical fabric for uniforms - lightweight, strong and designed to perform in humid environments. The CORDURA® brand is a registered trademark of INVISTA, one of the world's largest integrated polymer, intermediates and fibers businesses.

**Hall: 3, Stand: 348**

**CRYSTAL GROUP Inc**

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E-mail: [jcoon@crystalrugged.com](mailto:jcoon@crystalrugged.com)  
[www.crystalrugged.com](http://www.crystalrugged.com)

Crystal Group Inc., a technology leader in rugged computer hardware, specializes in the design and manufacture of custom rugged servers, embedded computing, networking devices, displays, power supplies, and data storage for high reliability in harsh environments. An employee-owned small business founded in 1987, Crystal Group provides defense, autonomous, and industrial markets with in-house customization, engineering, integration, configuration management, product lifecycle planning, warranty, and support services.

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**Hall: 4, Stand: 435**

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## CSC European Defense Business Management GmbH

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[www.cscgmbh.eu](http://www.cscgmbh.eu)

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Defence and Security Industry Association of the Czech Republic (DSIA) associates companies engaged in research, development, production, trade and marketing services of military and security equipment, material and infrastructure in the Czech Republic. It was founded in 1997 as a non-governmental, independent, apolitical, non-profit organization. Since its foundation it is a respected partner of the Czech Government, the Ministries of Industry and Trade, Defence, Interior and Foreign Affairs With these institutions the DSIA signed a series of cooperation agreements.

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## F

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F5 Networks is an IT supplier providing solutions in the areas of application delivery and application security. A founder of a loadbalancing ADC market segment in which it's been a leader as well as in the area of web application firewalls. Its solutions are available as both physical appliances and SW solutions for cloud. The HQ is in Seattle, USA.

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The 7.5 FK Field Pistol is a single action, tilting barrel type mechanism, with a proprietary recoil attenuating system. This is not a modified design of another product or pistol model. This is a completely new and unique concept and design and the intellectual rights to the system have been registered and claimed by FK BRNO. The design is very ergonomic and even though the magazine holds 15 – 35 mm long rounds, the smallest hands are able to fully wrap around the optimally angled grip of the pistol. The frame and slide are very slender and streamlined for such a size cartridge and caliber.

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## **G**

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GARANT is a world-wide active and independent family-owned business based in Switzerland and Germany. In close cooperation with our customers we compile the best solutions according to their specific needs.

Specialized in ballistic protection we offer state-of-the-art products and services.

GARANT with its latest SPS-15 EOD/IEDD Bomb Suit Ensemble together with MAWASHI with its UPRISE Tactical Exoskeleton are forming part in the NATO Project „Integration of the Exoskeleton in the Battlefield“.

*Represented companies and brands: SPS, TIG, FlexLiner*

**Hall: 4, Stand: 438**

## **GARDANT GLOBAL**

433 Plaza Real, Suite 275, Boca Raton FL 33432  
United States of America  
Tel: +1 954 444 9501  
E-mail: paul.karch@gardantglobal.com  
www.gardantglobal.com

GARDANT GLOBAL (GARDANT) is a leading provider of Strategic Management Consulting Services for Government and Industry in both the domestic and international markets. GARDANT is headquartered in Boca Raton, Florida with offices in the Washington, DC metropolitan area, the United Kingdom and a newly opened affiliate in Prague, Czech Republic. SOLAIYA CZ.

GARDANT's goal is client satisfaction. All our Strategic Management Consulting Processes are ISO 9001:2015 Quality Certified. We maintain a formal scorecard that measures our success and provides for continuous process improvement across our deliverables. GARDANT GLOBAL is divided into three divisions: STRATEGY, TECHNOLOGY AND INVESTMENT

The GARDANT STRATEGY Group provides support for the direct positioning and growth of client specific revenue generation, process improvement, and cost containment. GARDANT's strategic approach has successfully enabled our clients to realize over \$150 billion dollars in Life Cycle Value contracts with the US Government since our start in 2007. Centered on our agile, cost effective and proven processes we have become the resource for small, medium, and large organizations in the areas of Market Education, Opportunity Awareness, and Revenue Attainment. Our experienced group of Strategy Consultants work with our clients on Opportunity Identification, Qualification, Pursuit, Capture, Proposal and Post Award Contract and Grant Management. These ISO Certified Processes substantially maximize growth and revenue opportunities for our clientele. Winning is imperative; managing is mandatory. The GARDANT Post Award contract services include direct Task

Order Response, Contract Revenue Management, Customer Relationship Management, Personnel Recruiting and Performance Management. Our team utilizes many recognized tools and methods including elements of Six Sigma, Earned Value Management (EVM), International Standards Organization (ISO), and Balanced Scorecard.

**Hall: 4, Stand: 401**

## **GENERAL DYNAMICS European Land Systems**

Náchodská 137/469, 193 00 Praha 9, Czech Republic  
United States of America  
Tel: +420 724 650 663  
E-mail: info-czech@gdels.com  
www.gdels.com

General Dynamics European Land Systems (GDELS) is a business unit of General Dynamics Corporation and conducts its business through European operating sites located in Spain, Germany, Austria, Switzerland and the Czech Republic.

As one of the European leaders in the land combat systems sector, GDELS has focused itself on four specific divisions. The four divisions are Tracked Vehicles, Wheeled Vehicles, Amphibious bridges & Bridges Systems, and Artillery & Ammunition, plus a network of R&D centers, and worldwide maintenance capabilities.

**Hall: 3, Stand: 340**

## **GENTEX Corporation**

United States of America  
gentexcorp.com

**Hall: 3, Stand: 346**

## **Geographic Service of the Czech Armed Forces / Geografická služba AČR**

Czech Republic  
www.geoservice.army.cz



**GEOMETOC Specialized Partner**

## **GLOMEX MS, s.r.o.**

Pomněnková 61, 106 00 Praha 10  
Czech Republic  
Tel: +420 222 541 719  
Fax: +420 226 013 280  
E-mail: info@glomex-ms.com  
www.glomex-ms.com

GLOMEX Military Supplies is one of the leading suppliers of products and services to the Police and Armed Forces. Our main areas of activity are providing equipment to Special Forces, Air Forces & Police including night vision, combat identification, reconnaissance unmanned aerial vehicles, pilot personal protection equipment, parachute systems and special aviation equipment.

GLOMEX Military Supplies continually works with its partners in the long term support and maintenance of equipment that is currently in use by operating its own technical, maintenance and storage facility equipped to work with precision electronics including night vision devices and special aviation equipment.

*Represented companies and brands: Airborne Systems, Flightcell, Gentex, GPS Source, KMW, Lufthansa Technik, Nightline, INC., Ops-core, Pennant, Rebtch, Steiner, Transaero, WX*

**Hall: 3, Stand: 346**

## GLOSYS Electronics

United Arab Emirates  
[www.glosys.org](http://www.glosys.org)

GLOSYS Electronics is an innovative technology company that delivers unique technologies and services to the various industries. Our core business is delivering Search, Detection & Locating Systems, Personal Protective Equipment, Field Instrumentation and Engineering Services, Digital Mapping & Survey Systems for Humanitarian Mine Action, BAC, EOD, CIED and Public Security. We detect danger to save people's lives.

**Hall: 4, Stand: 468**

## GPS Source Inc.

United States of America  
[www.gpssource.com](http://www.gpssource.com)

**Hall: 3, Stand: 346**

## GRANQVISTS AB

Hynboholm 342, 655 91 Karlstad  
Sweden

Tel: +46 54 532 100

E-mail: [info@granqvists.se](mailto:info@granqvists.se)

[www.granqvists.se](http://www.granqvists.se)

Gloves producer.

**Hall: 3, Stand: 343**

## GUMOTEX, akciová společnost

Mládežnická 6032/3a, 690 75 Břeclav  
Czech Republic

Tel: +420 519 314 197

E-mail: [RescueSystems@gumotex.cz](mailto:RescueSystems@gumotex.cz)

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

Products for safety and rescue systems - inflatable tents, decontamination showers and basins, flood barriers, water rescue products, special products, accessories and customized production.

**Hall: 4, Stand: 424**

## H

## HEXONIA GmbH

Van-der-Upwich-Str. 40, 41334 Nettetal  
Germany

Tel: +49 2153 951830

E-mail: [info@hexonia.de](mailto:info@hexonia.de)

[www.hexonia.de](http://www.hexonia.de)

Hexonia GmbH is a developer and manufacturer of clothing, protection and body armor systems including protective helmet systems as well as a specialist in heat and sweat management, presently supplying the IdZ clothing system in Germany.

**Hall: 3, Stand: 301**

## Hlavní velitelství Vojenské policie

Czech Republic  
[www.vp.army.cz](http://www.vp.army.cz)

**FFISC Specialized Partner**

## HM Armcom Zrt.

Hungary  
[www.armcom.hu](http://www.armcom.hu)

**Hall: 4, Stand: 412**

## HM Arzenál Zrt

Hungary  
[www.hmarzenal.hu](http://www.hmarzenal.hu)

**Hall: 4, Stand 412**

## HM Currus Zrt.

Hungary  
[www.hmei.hu/en/\\_ehmei\\_kiallitas\\_2014/\\_ehm\\_currus\\_zrt.html](http://www.hmei.hu/en/_ehmei_kiallitas_2014/_ehm_currus_zrt.html)

**Hall: 4, Stand: 412**

## HM EI Zrt

Hungary  
[www.hmei.hu](http://www.hmei.hu)

**Hall: 4, Stand 412**

## HUDYsport a.s.

Bynovec 138, 405 02 Bynovec  
Czech Republic

Tel: +420 775 627 331

E-mail: [janek@hudy.cz](mailto:janek@hudy.cz)

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

Expert and Czech market leader of the outdoor gear for civilian and military use.

*Represented companies and brands: Direct Alpine, Forestia, Source*

**Hall: 3, Stand: 345**

## HUNGARIAN DEFENCE INDUSTRY

H-1101 SALGOTARJANI STR 20, BUDAPEST

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E-mail: [gyurkovics.antal@hmei.hu](mailto:gyurkovics.antal@hmei.hu)

[www.hmei.hu](http://www.hmei.hu), [www.currus.hu](http://www.currus.hu), [www.hmarzenal.hu](http://www.hmarzenal.hu), [www.armcom.hu](http://www.armcom.hu),

[www.vedelmiipar.hu](http://www.vedelmiipar.hu)

For more information on HUNGARIAN DEFENCE INDUSTRY's products Please VISIT our stand at HALL 4 during the Future Forces Forum in Prague 17-19 October.

We would like to speak to you if you are attending the show and would welcome you to come and meet us at HUNGARIAN DEFENCE INDUSTRY stand to view our portfolio, have a demo or even just to have a chat.

**Hall: 4, Stand: 412**

## Hydrometeorological Service of the Czech Armed Forces / Hydrometeorologická služba AČR

Czech Republic  
[www.hydrometeoservice.army.cz](http://www.hydrometeoservice.army.cz)

**GEOMETOC Specialized Partner**

# CH

## Chemical Corps of the Czech Armed Forces / Chemické vojsko AČR

Czech Republic  
www.acr.army.cz

**CEBIRAM Specialized Partner**

## ICZ a.s.

Na Hřebenech II 1718/10, Nusle, 140 00 Praha 4  
Czech Republic  
Tel: +420 222 271 111  
Fax: +420 222 271 112  
E-mail: marketing@i.cz  
www.iczgroup.com



ICZ Group – an important information technologies supplier and systems integrator – offers a wide range of services spanning from consultancy through the deliveries of information systems up to the complex provision of full network administration.

Its portfolio covers following areas - application software, security and infrastructure, especially for the public sector, healthcare, defence, transport, finance, production, logistics and telecommunications.

Apart from Czech Republic in Slovakia, the ICZ Group is also active in other countries.

**Hall: 3, Stand: 350**

**Platinum Partner of FFISC Panel C41STAR**

## Institute of Physics of Materials, Czech Academy of Sciences

Žižkova 22, 616 62 Brno  
Czech Republic  
Tel: +420 532 290 348  
E-mail: klusak@ipm.cz  
www.ipm.cz

The aim of the Institute of Physics of Materials of the Academy of Sciences of the Czech Republic is to elucidate the relation between the behaviour and properties of materials and their structural and microstructural characteristics. Particular emphasis is placed upon research into advanced metallic materials and composites with a metal base in relation to their microstructure and production technique. On this basis it is possible to optimise both the microstructure and material properties and to design advanced materials.

The Institute was established in 1955 as a part of the newly founded Czechoslovak Academy of Sciences. Since that time it has been continuously developed to the present day. The Institute has more than 120 employees at present. Almost a half of the staff are scientists (i.e. with a Ph.D. or equivalent degree). A number of Ph.D. students who perform their study at IPM is important. The Institute is divided into three scientific departments and a service department. The scientific departments consist of ten research groups.

Department of Mechanical Properties focuses on the physical nature of processes which occur in metallic materials during creep, fatigue, creep/fatigue, brittle fracture and their combinations in relation to the evolution of microstructure and structure.

Department of Structure of Materials studies the structure of materials and selected thermodynamic, diffusion and magnetic properties. The term structure is understood in a broad sense, ranging from atomic bonds, through crystal lattice and its imperfections, the size of crystallites in materials, to the macroscopic dimensions of loaded bodies.

Department CEITEC IPM is one of six organization units of the Central European Institute of Technology. The department is focused mainly on study of mechanical, transport and magnetic properties of advanced materials.

The IPM cooperates with many Czech and international industrial companies, research institutions and universities.

**Hall: 4, Stand: 406**

## INTERCOLOR a. s.

Czech Republic  
www.intercolor.cz

**Hall: 3, Stand: 323**

## INTERLINK CS

Lomená 515/9, 162 00 Praha 6  
Czech Republic  
Tel: +420 233 343 220  
E-mail: interlink@interlinkcs.cz  
www.interlinkcs.cz

INTERLINK CS, spol. s r.o., je dodavatelem špičkových komunikačních, monitorovacích a anténních systémů pro profesionální uživatele z řad státní správy země střední Evropy. Společnost Interlink CS byla založena v roce 1992 a má dlouholeté zkušenosti v oblasti návrhů testování a implementací komunikačních řešení včetně technické podpory svých zákazníků a koncových uživatelů. Interlink CS je spolehlivý a zodpovědný dodavatel pozemních a leteckých komunikačních systémů.

Established in 1992, Interlink CS has considerable experience in advising, trialling, supplying and supporting its customers and end users with ground and airborne solutions. Interlink is well known as a reliable, responsible supplier of communications and ground and air situational awareness solutions. We would be pleased to discuss your problem areas, and provide suitable solutions.

*Harris Communications Systems, Comrod Antennas and Masts, Racal Acoustics / Esterline Headsets, Sonic in-ear solutions, Vocality VOIP, Rolatube Masts, Astronics Test Equipment, Digital Barriers, Kinesense Video Evidence, Spectra Satcom, Inzpire GECCO Tablet Solutions and Flight Simulators, Operational Solutions' Counter UAV solutions, HR - Smith Airborne Antennas and Flight Safety Equipment, Chemring Technical Solutions, DTC Monitoring Solutions*

**Hall: 3, Stand: 310**

## INTRACOM DEFENSE ELECTRONICS

21 km Markopoulou Ave., Koropi Athens, 19441  
Greece  
Tel: +420 602 576 160  
E-mail: miroslav.struhelka@rayservice.com  
www.intracomdefense.com

IDE (INTRACOM Defense Electronics), the leading electronics and communication systems company in defense and security in Greece, possesses unique know-how in design, development and manufacturing of products that incorporate state-of-the-art technology in tactical communication systems, information security, command, control and communication systems, missile electronic systems (data links and telemetries), surveillance, reconnaissance and security systems, hybrid electric power and electric energy storage systems, software for military applications as well as test equipment.

IDE participates in multinational development and production programs in cooperation with major international defense system companies. Moreover, IDE expands its international partnerships through co-production programs

with the leading manufacturers, for the implementation of state of the art electronics in many systems.

IDE invests annually a significant amount in R&D activities aiming at developing cutting-edge defense products and competitive secure communications solutions that will internationally meet the current and the future needs of defense and security sector.

Distributor if IDE for the Czech Republic is company Ray Service.

**Hall: 3, Stand: 352**

## ISRAELI Ministry of Defense - SIBAT

Hakirya Tel Aviv 6473424

Israel

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E-mail: [Yevgeni\\_kilshatok@mod.gov.il](mailto:Yevgeni_kilshatok@mod.gov.il)

[www.sibat.mod.gov.il](http://www.sibat.mod.gov.il)

SIBAT, the International Defense Cooperation directorate of the Israel Ministry of Defense (IMOD), is uniquely positioned within the IMOD, while having a close, ongoing relationship with Israel's defense industry. This combination ensures that SIBAT maintains in-depth and up-to-date knowledge of the defense world's relevant concepts, as well as a clear understanding of the Israel Defense Forces' (IDF) operational needs.

SIBAT facilitates international cooperation through its various services:

Generating Government-to-Government agreements

Initiating visits of official foreign delegations

Identifying cooperation opportunities with the Israeli defense industry

Locating relevant technological solutions for specific requirements

Establishing joint ventures

Managing the marketing and sales of IDF inventory

Providing in-depth information on Israel's defense industry through a biennial directory and by organizing the Israeli national pavilions at international defense exhibitions .

**Hall: 4, Stand: 464**

## J

### JISR INSTITUTE, a.s.

Na strži 241/28, 141 00 Praha 4 - Krč

Czech Republic

Tel: +420 604 103 394

E-mail: [vaclav.janda@jISR-institute.org](mailto:vaclav.janda@jISR-institute.org)

[www.jISR-institute.org](http://www.jISR-institute.org)

An institute involved in design and building solutions in the field of Joint Intelligence, Surveillance and Reconnaissance (JISR) capabilities for Military and Civil State organisations.

JISR Institute, a.s., (PLC) provides tailored solutions for various missions and tasks typically for special Joint ISR and EW teams. JISR Institute's inseparable activity is to provide technical, tactical and operational training in the branch of ISR and EW.

**Gold Partner of FFISC Panel C4ISTAR**

### JSC "KSF "Peredovaya tekstilshchitsa"

Moscow region, Korolev, Fabrichnaya str. 10

Russian Federation

Tel: +7 495 515 8247

E-mail: [airsilk@yandex.ru](mailto:airsilk@yandex.ru)

[airsilk.ru](http://airsilk.ru)

Manufacture of technical fabrics.

**Hall: 4, Stand: 444**

### JUSTRA TREZORY s.r.o.

Vilnická 45, 405 02 Děčín

Czech Republic

Tel: +420 774 431 111

E-mail: [marketing@justratrezory.cz](mailto:marketing@justratrezory.cz)

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

We are the Czech company Justra safes s.r.o. producing security safes since 1995.

We producing:

- Archive safes
- Firearm safes
- Furniture safes
- Key cabinets
- Strongroom doors
- Gun safes
- Safes on order

**Hall: 4, Stand: 410**

## K

### KARRIMOR SF

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United Kingdom

Tel: +44 1392 360065

E-mail: [John@karrimorsf.com](mailto:John@karrimorsf.com)

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

Karrimor SF is one of the world's leading manufacturers of military load carriage systems. In use today by armed forces around the world. Including all of the UK MoD Personal Load Carriage Equipment (PLCE) from a magazine pouch to a large infantry rucksack. Our products are well known for their quality and dependability in extremely demanding environments. Karrimor SF works with military end users to ensure that the load carriage requirements of the modern soldier are met and exceeded. Used today by UK and other NATO and allied forces worldwide.

**Hall: 3, Stand: 341**

### KEELA/ILASCO

52-53 Nasmyth Road, Glenrothes, Fife, UK, KY6 2SD

United Kingdom

Tel: +44 1592 777 000

Fax: +44 1592 777 007

E-mail: [enquiries@keela.co.uk](mailto:enquiries@keela.co.uk)

[www.keela.co.uk](http://www.keela.co.uk) & [www.ilasco.co.uk](http://www.ilasco.co.uk)

Keela has propelled itself into one of the major tactical apparel manufacturers by listening to and understanding the end users' requirements. We take that information and add it to our extensive knowledge and experience to provide the right solution for the operator.

One of our latest additions is the Sentinel Jacket, a half-jacket which allows you to operate and access equipment unhindered. Email us at [enquiries@keela.co.uk](mailto:enquiries@keela.co.uk) for an appointment, or just join us at Future Forces to see the Sentinel in person, along with the rest of our new range.

**Hall: 3, Stand: 321**

## KIDDE-DEUGRA Brandschutzsysteme GmbH

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Germany  
Tel: +420 724 311 279  
E-mail: [zbynek.navrati@rayservice.com](mailto:zbynek.navrati@rayservice.com)  
[www.kidde-deugra.com](http://www.kidde-deugra.com)

KIDDE DEUGRA has over 50 years of experience in the field of fire and explosion protection. The company is a recognised and extremely reliable partner who translates individual requirements into efficient solutions. Our fire extinguishing and fire suppression systems are designed for armoured vehicles, aviation, racing vehicles and other non-military vehicles.

KIDDE-DEUGRA is an associate of the globally operating UTC Aerospace Systems, a company affiliated with United Technologies Corporation.

Distributor of KIDDE DEUGRA products for the Czech Republic is company Ray Service.

**Hall: 3, Stand: 352**

## KMW

Germany  
[www.kmweg.com](http://www.kmweg.com)

**Hall: 3, Stand: 346**

## KOUTNÝ spol. s r. o.

Czech Republic  
[www.koutny.cz](http://www.koutny.cz)

**Hall: 3, Stand: 323**

## L

## Land Survey Office

Czech Republic  
[www.cuzk.cz](http://www.cuzk.cz)

**GEOMETOC Specialized Partner**



## LEONARDO Helicopters

Via Giovanni Agusta 520 Cascina Costa di Samarate  
Italy  
Tel: +390331 22111  
E-mail: [federica.ferullo@leonardocompany.com](mailto:federica.ferullo@leonardocompany.com)  
[www.leonardocompany.com](http://www.leonardocompany.com)

Leonardo's Helicopter Division performs research, design, development, production, customer support and marketing of the company's extensive range of modern helicopters for commercial, public service, security and defence applications.

The Helicopter Division manages the entire helicopter development and production cycle. Manufacturing facilities, concentrated in Italy, UK, Poland and USA, are fully integrated and are organised around 'centres of excellence' that support the final assembly lines.

Current production covers all the main helicopter weight categories, from the 1.8 tonne single-engine SW-4 to the 16 tonne three engine AW101. Other products include the fast and flexible AW119Kx single engine, the AW109 Trekker and the AW109 GrandNew light-twins, the brand new AW169 twin engine, the multi-role AW159, the bestselling AW139 intermediate twin, the

AW149 medium twin, the latest generation AW189 and the NH90.

All the helicopters are dual use (commercial and military) platforms except specific military AW159, AW101 and NH-90. The AW139M, military version of the AW139, combining state-of-the-art technology, unmatched performance and unrivalled safety, is the best solution in the most challenging conditions, all over the world.

The Helicopter Division provides customers with efficient logistics and maintenance support in order to increase operational availability of their helicopters while reducing through life costs. This means offering commercial and military customers optimised aftersales support and training solutions tailored to their specific needs.

Leonardo Helicopters is also committed to the study and introduction into the market of innovative technologies and platforms, including the AW609 TiltRotor and the remotely controlled/optionally piloted rotorcraft.

In addition to its own research and development activities, the Division is actively involved in many collaborative research programmes with major European aerospace companies.

## VIP Lounge Sponsor

## LEONARDO S.p.A.

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Italy  
Tel: +39 3357499021  
E-mail: [gianantonio.bevilacqua@leonardocompany.com](mailto:gianantonio.bevilacqua@leonardocompany.com)  
[www.leonardocompany.com/en](http://www.leonardocompany.com/en)

Leonardo is a global high-tech company and one of the key players in Aerospace, Defence and Security.

Headquartered in Italy, Leonardo has over 45,000 employees. The Company has a significant industrial presence in four domestic markets (Italy, the United Kingdom, the United States and Poland) as well as strategic partnerships in the most important high potential international markets. Leonardo's structure is organised into seven Divisions. The Company also operates through subsidiaries and joint ventures.

The Airborne & Space Systems Division designs, develops and produces a wide range of products and solutions for aircraft platforms that include integrated mission systems, airborne radars and sensors, electronic warfare systems, on-board avionics, aerial target systems and simulation systems. The Division also develops and produces Remotely Piloted Aircraft Systems (RPAS) which are also offered through full life-cycle service contracts. The Division's offer is completed by space systems that, in addition to the sensors and mission payloads, include advanced robotic systems.

*Represented companies and brands: GABBIANO TS ULTRA-LIGHT*

**Hall: 3, Stand: 327**

## LEUPOLD

14400 NW Greenbrier Parkway, OR 97006-5790 Beaverton  
United States of America  
Tel: +1 503 646 9171  
E-mail: [orders@leupold.com](mailto:orders@leupold.com)  
[www.leupold.com](http://www.leupold.com)



Leupold & Stevens, Inc., the preeminent American-owned optics company, employs more than 600 people in its state-of-the-art manufacturing facility near Beaverton, Ore. Family owned and privately operated, Leupold offers products that are sold worldwide to hunters, competitive shooters, American military warfighters, law enforcement personnel, wildlife observers, and golfers. The product lines include rifle, handgun and spotting scopes; binoculars; rangefinders; mounting systems; and optical tools and accessories.

**Hall: 4, Stand: 427**

## LIAZ a.s.

Kamenická 743, 460 06 Liberec, Czech Republic  
Tel: +420 485 130 448  
E-mail: [info@liaz-uav.com](mailto:info@liaz-uav.com)  
[www.liaz-uav.com](http://www.liaz-uav.com)



LIAZ a.s. is currently engaged in the development and production of unmanned helicopters. This is a new line of business as a continuation of the long tradition of LIAZ truck production. The company was founded in 1951 and later on, having already 10 manufacturing plants with 11,000 employees, was producing up to 13,600 trucks a year.

LIAZ a.s. is not just a supplier of unmanned helicopter complexes. The company also offers specialized systems and other specific services (including a whole range of payload systems and software) as well as technical tools associated with the use of a helicopter (SkySpotter 150 B and SkySpotter 150 C simplified specialty versions). Extensive technical and manufacturing experience enables the LIAZ team to introduce innovative technical features during the R&D phase and implement ambitious concepts.

With the SkySpotter 150 complex, the customers receive a ready-made solution tailored to their own specific needs.

*Represented companies and brands: ATOMTEX*

**Hall: 3, Stand: 327**

## LOGISTICS AGENCY/AGENTURA LOGISTIKY

VU 5512, Boleslavská 929,  
250 02 Brandýs nad Labem - Stará Boleslav  
Czech Republic  
[www.alog.army.cz](http://www.alog.army.cz)



The Logistics Agency is the expert authority subordinated to Director of the Division of Support. It is responsible for a comprehensive logistic support of ministerial events and military missions and operations on the Czech territory and abroad. The Agency supports allied armed forces on the territory of the Czech Republic in accordance with the Host National Support.

The Agency provides management, planning, and coordination of military transports and movements of Czech and allied forces on the Czech territory. In relation to NATO, it is the National Transport Coordination Centre.

**LCC Specialized Partner**

## LOM PRAHA s. p.

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



LOM PRAHA s.p. is the leading company specializing on the Mi helicopters lifecycle support in the NATO and EU countries certified by the Russian MVZ Mil and OAO Klimov companies, the Interstate Aviation Committee MAK and domestic aviation authorities. Unlike many competitors, we can offer comprehensive services associated with overhauls, i.e. a complex support of the aviation technology lifecycle. Our experienced staff, utilization of advanced technologies and emphasis on top quality can be considered our greatest competitive advantage.

Our company focuses on complete overhauls, upgrades and modernizations of Mi-8/17/171/24/35 helicopters and their dynamic components TV3-117/VR-14/VR-24/APU lifecycle support. We also provide pilot trainings (Mi-17/L-39) in our Flight Training Center and a tactical pilot trainings on simulators in our Tactical Simulation Center. VR Group, a.s., the company's subsidiary, is providing the complex solution regarding the simulation technologies.

**Hall: 3, Stand: 339**

**FFF General Partner**

## LUFTHANSA Technik

Germany  
[www.lufthansa-technik.com](http://www.lufthansa-technik.com)

**Hall: 3, Stand: 346**

## LUVO Praha spol. s r.o.

Rejskova 7, 120 00 Praha 2, Czech Republic  
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E-mail: [luvo@iol.cz](mailto:luvo@iol.cz)  
[www.luvo.cz](http://www.luvo.cz)

THE PRODUCTION HISTORY OF ČZ STRAKONICE FIREARMS

In September, 1919 the first factories were built under the name The South Bohemian Armory in Strakonice in the south of the Czech Republic. They took over the production of the Firearms. This merger resulted in the new trademark ČZ (in a circle). Pre-World War II The majority of products were for military and professional forces. Realizing the growing danger of war in the 1930s, and considering that Strakonice was about an hour drive from the Austrian and German borders, the company relocated in Uherský Brod in the eastern part of the country. World War II

During World War II firearms manufacturing continued but the production range consisted of firearms designed and made in German armories. Post-World War II Production include some of the following In 1954 the entire firearms production was, for safety, moved to the branch plant in Uherský Brod. Because of political and economic changes in 1989 in the Czech Republic the plant in Uherký Brod became independent. They continued to use the original trademark until 1992 when they registered their own - ČZ UB. Modern ČZ Strakonice History When ČZ Strakonice production resumed in the first half of 1990 the company was divided into several divisions and firearms were allocated to ČZ Strojirna Ltd.

ČZ Strojirna Ltd. produced 50,000 M6 for the U.S. Army Between 1993 to 2001. LUVO Prague Ltd. (LUVO FIREARMS) LUVO Prague Ltd. (LUVO Firearms) took over firearms production from ČZ Strojirna Ltd. in 2006. The company continues to use the trademark ČZ (in a circle) and produced Pistols, Assault Rifles, Semi-automatic Snipers, Semi-automatic Rifles and Grenade launchers. The company goal is to produce quality firearms for military, police, special forces and civilians markets worldwide.

**Hall: 4, Stand: 425**

## LUXFER MAGTECH

United States of America  
[luxfermagtech.com](http://luxfermagtech.com)

**Hall: 4, Stand: 448**

## LV EQUIPMENT BV

Westpoort 67, 4695 ED Sint Maartensdijk, Netherlands  
Tel: +31 166 662 045  
Fax: +31 166 610 272  
E-mail: [leen@lvequipment.nl](mailto:leen@lvequipment.nl)  
[www.lvequipment.nl](http://www.lvequipment.nl)

LV Equipment BV (LV) is the exclusive partner and licensee from Berghaus Ltd. in the UK for the development and supply of military & police load carrying systems in Europe, Africa, the Middle East and NATO.

*Represented companies and brands: Berghaus, Victorinox*

**Hall: 4, Stand: 422**

# M

## MAWASHI SCIENCE & TECHNOLOGY

820 Ch du Grand-Bernier N, Saint-Jean-sur-Richelieu, QC J2W 0A6  
Canada  
Tel: +1 450 349 9833  
E-mail: info@mawashi.net  
www.mawashi.net

Mawashi Science & Technology is a Leading-Edge Defense Research and Development (R&D) Company that develops Game-Changing Exoskeletons for Human Performance Augmentation (EHPA). With a unique combined expertise in Human Factors & Ergonomics, Biomimicry, Impact Management, New Product Development, Multiphysics Engineering, Industrial Design, Concept Art and Systems Integration, Mawashi assures to its clients a Technological Advancement, a Competitive Advantage, and Superiority in the industry. Mawashi offers its services in Research, Design, Prototyping, Manufacturing, and Technology Transfer. Mawashi is dedicated to advancing the cutting-edge of Science and Technology by developing truly innovative solutions.

*Represented companies and brands: Ultralight Passive Ruggedized Integrated Soldier Exoskeleton (UPRISE™)*

**Hall: 4, Stand: 437**

## MAXIMUM Services

Czech Republic  
www.maximumservices.cz

**FFF Service Partner**

## Medical Rescue Service of South Bohemia Region

B. Němcové 1931/3, 370 10 České Budějovice  
Czech Republic  
Tel: +420 387 762 115  
E-mail: sekretariat@zsjck.cz  
www.zsjck.cz

Medical rescue service of South Bohemia Region is established by the South Bohemian Region as a separate allowance organization forming a single functional, organizational and economic entity with legal personality. This organization provides 24-hour emergency pre-hospital care in an area of 10 056 km<sup>2</sup> with 640 196 inhabitants.

The main activity is based on and arrangement of emergency calls to provide pre-hospital emergency care to people with serious health disabilities or life threats and tasks to ensure the preparedness activities on emergency management and crisis situations.

Medical rescue service of South Bohemia Region as an organization consists of:

- Head office
- Medical Operating Centre,
- The departure of the bases and the groups
- Departure of crisis management,
- Educational and training centre

Medical rescue service of South Bohemia Region is divided into seven regional centres, which operate the 32 bases. There are 54 groups working nonstop in these bases:

- 38 emergency medical assistance groups - RZP (large ambulance vehicles comprising a paramedic and a driver/rescue person)
- 6 fast medical aid groups - RLP (large ambulance vehicles comprising a physician, a paramedic and a driver/rescue person)
- 10 groups of rendez-vous system - RV (small emergency vehicles carrying a physician and a paramedic)
- 1 crew of air rescue services

Bases network is arranged on plan of covering the territory of the region so that the place of event is reachable from the nearest departure base within driving time within 20 minutes of receiving the emergency call. For the year, rescuers go to more than 81,700 interventions.

**Hall: 4, Stand: 451 + VP**

## MESIT asd, s.r.o.

Sokolovská 573, Mařatice, 686 01 Uherské Hradiště  
Czech Republic  
Tel: +420 572 522 200  
E-mail: asd@mesit.cz  
www.mesit.cz

R&D and production of military communication systems and aircraft instruments. MESIT is part of the aviation and defense industry for more than 65 years.

Tactical communications – comprehensive and interconnected systems of wireless tactical communication for the support of command and control of military operations.

Vehicle communication systems – intercoms, active noise reduction (ANR) headsets, PA systems and radio audio monitors.

Aircraft instruments – fuel measurement, heating and de-icing system, control units...

**Hall: 3, Stand: 322**

## Microflown AVISA

Tivolilaan 205, 6824 BV Arnhem  
Netherlands  
Tel: +31 880 010 800  
Fax: + 31 880 010 810  
E-mail: avisa@microflown.com  
microflown-avisa.com

Microflown AVISA will be presenting its vehicle mounted Mobile Sound Ranging Array capability. The MSRA provides protection to the armoured vehicle and its dismounted crew, foremost against gunshots, attack helicopters and RPGs. The MSRA also acts like an alternative to a weapon location radar, localizing points or origin, predicting points of impact and supporting fire control. Acoustic payloads will be presented on two Polish unmanned aerial platforms, the Flyeye and a customized multicopter from MSP, allowing acoustic events to be detected and localized more timely and more accurately.

**Hall: 3, Stand: 335**

## MILITARY INTELLIGENCE

Tychonova 221/1, 160 01 Praha 6  
Czech Republic  
Tel: +420 973 200 400  
Fax: +420 973 200 450  
E-mail: sekretariatvz@mod.gov.cz  
www.vzcr.cz

Military Intelligence is the Intelligence Service of the Czech Republic integrating intelligence and counter-intelligence activities with a focus on defence and security. At the FFF, we will present two of its important components. The National Cyber Operations Center (NCOC), established to provide cyber defence capability and to conduct a wide range of operations in cyberspace. In addition, the National Satellite Centre of the Czech Republic (SATCEN CZE) established this year, responsible for satellite imagery acquisition and analysis used for both military and civilian purposes.

**Hall: 4, Stand: 409**

## Military Medical Agency Czech Armed Forces

Buzulucká 897, 500 03 Hradec Králové, Czech Republic  
Tel: +420 973 255 010  
E-mail: [tisk.avzdr@gmail.com](mailto:tisk.avzdr@gmail.com)  
[www.zdravotnictvi.army.cz](http://www.zdravotnictvi.army.cz)



The Czech Armed Forces Military Medical Agency is an executive body and a provider of medical services to the Czech Armed Forces. It is directly subordinated to the Division of Support of the Ministry of Defence. All medical facilities with the exception of unit dressing stations and state-funded institutions (military hospitals) report to the Military Medical Agency.

### Tasks:

Responsibility for the level and quality of provided medical services in primary care;

Competence of the executive body for handling pharmaceuticals, addictive substances, medical drugs and the securing of their quality in the MoD;

Input in the realisation of the performance of the public sphere, including state medical supervision in the area of public health protection, the protection of health from ionising radiation, performance of government function in veterinary area within the MoD;

Medical service provision with the use of own providers;

Evaluation of medical fitness for active military service and participation in the preparation of related legislative measures;

Developing cooperation of the MoD and the Ministry of Health in the domain of pharmaceuticals handling, public health protection, defence and crisis planning;

Delivering complex veterinary care and canine specialisations training

Ensuring the biological defence of forces;

Provision of counselling support and mental health care.

### CEBIRAM Specialized Partner

## Military Police Headquarters, MoD

Czech Republic  
[www.vp.army.cz](http://www.vp.army.cz)

### FFISC Specialized Partner

## MILITARY TECHNICAL INSTITUTE

Mladoboleslavská 944, 197 00 Praha 9 - Kbely  
Czech Republic  
Tel: +420 910 105 111  
E-mail: [info@vtusp.cz](mailto:info@vtusp.cz)  
[www.vtusp.cz](http://www.vtusp.cz)



Vojenský technický ústav, s.p. (Military Technical Institute) offers defense and security R&D services, certified testing, manufacturing and modernization of armament and military technologies for Armed Forces of the Czech Republic as well as for other state or private customers.

**Hall: 3, Stand: 349**

### Gold Partner of MEDICAL Conference + Gold Partner of MARS

## MILLIKEN & COMPANY

920 Milliken Road, Spartanburg, SC 29303  
United States of America  
Tel: +1 210 260 9639  
E-mail: [tommy.young@milliken.com](mailto:tommy.young@milliken.com)  
[millikenmilitary.milliken.com](http://millikenmilitary.milliken.com)



Milliken has been solving problems with innovative solutions for more than 150 years. Our research, design and manufacturing expertise reaches across a breadth of disciplines including specialty chemicals, floor covering and

performance and protective textiles. An unwavering commitment to ethics guides our work to redefine how we add strength and protection to products, infuse vibrancy and color into our surroundings and care for the environment. With over 35 manufacturing facilities and more than 7,000 associates globally, success is when discoveries made within Milliken help us all have more meaningful connections with the world.

**Hall: 4, Stand: 445**

### Silver Partner of FFISC Survivability Panel

## Ministry of Defence - Cyber & IMINT Division

Czech Republic

**Hall: 4, Stand: 409**

## MINISTRY OF DEFENCE of the Czech Republic / MINISTERSTVO OBRANY ČR

Tychonova 221/1, 160 00 Praha 6 – Hradčany  
Czech Republic  
Tel: +420 973 201 111  
E-mail: [info@army.cz](mailto:info@army.cz)  
[www.army.cz](http://www.army.cz)



Presentation of new technologies, examples of gear and equipment, modern technologies.

**Hall: 3, Stand: 399A + 399B + VP**

## Ministerstvo životního prostředí

## Ministry of the Environment / Ministerstvo životního prostředí

Czech Republic  
[mzp.cz](http://mzp.cz)

### GEOMETOC Specialized Partner

## Ministry of the Interior / Ministerstvo vnitra

Czech Republic  
[www.mvcr.cz](http://www.mvcr.cz)

**Hall: 4, Stand: 480 - Cyber Pavilion**

## Ministry of the Interior General Directorate of Fire Rescue Service of the Czech Republic Population Protection Institute

Na Lužci 204, 533 41 Lázně Bohdaneč  
Czech Republic  
Tel: +420 950 580 111  
Fax: +420 950 580 111  
E-mail: [spisovna@ioolb.izscr.cz](mailto:spisovna@ioolb.izscr.cz)  
[www.ioolb.cz](http://www.ioolb.cz)

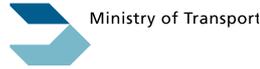
Primary mission of the Fire Rescue Service of CR is to protect life, health and property of citizens against fire, and to provide effective help in emergencies. Fire Rescue Service of CR is one of the basic bodies of the Integrated Rescue System, which has been operating with new structure since 1st January 2001.

Under the Act No. 320/2015 Coll. on Fire Rescue Service of CR and on certain regulations, new organisational structure had been established and the basic tasks had been determined.

Fire Rescue Service of CR consists of the Directorate General of Fire Rescue Service of CR (DG FRS CR), which is a part of the Ministry of Interior, and of 14 Regional Fire Rescue Services, the Emergency Unit of FRS CR, and the Special Secondary School of Fire Protection and High Special School of Fire Protection in Frýdek-Místek.

**Hall: 4, Stand: 429**

## Ministry of Transport / Ministerstvo dopravy



Czech Republic  
www.mdcz.cz

**MARS Specialized Partner**

## MITTET SPESIALPRODUKTER AS

Kvasnesvegen 2, 6037 Eidsnes  
Norway

Tel: +47 958 35 677  
E-mail: vidar@mittet.com  
www.mittet.com

Producer of Thermal Overboots for cold and wet weather.

*Represented companies and brands: Thermal Overboots*

**Hall: 4, Stand: 404**

## MITTLER REPORT VERLAG GmbH

Baunscheidtstrasse 11, 53113 Bonn  
Germany

Tel: +49 228 3500 886  
Fax: +49 228 3500 871  
E-mail: stephen.barnard@mittler-report.de  
www.mittler-report.de

Mittler Report Verlag GmbH is considered the leading German publishing house in the areas of security and defence policy, armed forces, industry, defence procurement and logistics.

With the successful implementation of a new, state-of-the-art editorial concept for the 8-times-per-year EUROPEAN SECURITY & DEFENCE (ESD) and the introduction of the accompanying online newsletter ESD SPOTLIGHT the magazine has taken advantage of significant growth of its international readership and subscriber base since January 2015. EUROPEAN SECURITY & DEFENCE is the only international defence and security periodical with balanced coverage for and of the political, military and industrial environment.

As an independent specialist periodical the publishing house's monthly EUROPÄISCHE SICHERHEIT & TECHNIK (German) is published based on a contractual agreement with the Federal Ministry of Defence and its subordinate office and command structure and serves the entire German-speaking defence and security community.

Furthermore, Mittler Report Verlag's scope of publications includes MARINEFORUM as the leading German monthly on naval and maritime affairs, the WEHRTECHNISCHER REPORT/DEFENCE TECHNOLOGY REVIEW (German/English) and SICHERHEITSTECHNISCHER REPORT (German) series of brochures on dedicated interest segments, the security-political quarterly MITTLER-BRIEF as well as the WEHRWIRTSCHAFT (German) and ESD SPOTLIGHT (English) biweekly online-newsletters.

Besides, the publishing house organises domestic and international conferences and symposia addressing selected issues in defence, armament and logistics.

**Hall: 4, Stand: 403**

**Media Partner**

## MODELÁRNA LIAZ spol. s r.o.

Kamenická 743, 460 06 Liberec  
Czech Republic  
Tel: +420 485 130 448  
E-mail: info@modelarna-liaz.cz  
www.modelarna-liaz.cz

The history of the LIAZ pattern shop dates back to 1907 and is directly linked to the beginnings of the automotive industry and the establishment of the RAF Company in Liberec. By the 1990's the production of pattern equipment and molds for the foundry industry was the main subject of activity.

Following the privatization and the technological redevelopment in 1996 the LIAZ Pattern Shop was fully integrated into the European (world) automotive industry and gradually became a recognized technological and innovative workplace dedicated to the production of tools and jigs for the automotive industry.

Over the past years we, in the prototype and serial production of the automotive industry, have collected a number of processes and technologies, particularly in the area of processing of polyurethanes and plastic materials that can be further applied in other fields (aeronautics, power engineering, design and architecture).

Today, the main activity of the company consists in the development, design and production of parts, tools and jigs for the automotive, power engineering and aerospace industries.

The LIAZ pattern shop is a purely Czech company with approx. 110 employees. Owners are directly involved in the management of the company, by which the company aims to provide the maximum performance according to customer requirements. We are pleased to work with cutting-edge technologies for customers with demanding requirements.

The technology development of the company has been encouraged by the cooperation on research projects within the Czech Republic and EU countries. Within the research and design projects the LIAZ pattern shop processes new technologies in areas of computer science, management, material engineering and tool-making.

**Hall: 3, Stand: 327**

## MORIS DESIGN s.r.o.

Ševce Matouše 2018/9, 140 00 Praha 4, Czech Republic  
Tel: +420 602 395 519  
E-mail: jiri.jedlicka@moris.cz  
www.moris-distribution.cz

MORIS Distribution is one of the divisions of MORIS design llc. It deals with the import and distribution of premium brands for the Czech and Slovak markets. We are a distributor of the brand for wholesale and B2B. An extensive distribution network covers most of the major stores in both countries. Each of our brands is a leader in its field. Selected products deliver added value in the form of extended warranty up to 25 years! The close relationship with the parent company MORIS Design, which focuses on in-store design and production of POPs and POS materials, enables us to provide brands and the partners as well as an over-the-top care. For these markets, it ranks among the most cutting-edge brands among distribution companies in the Czech Republic and Slovakia.

*Represented companies and brands: Setolite, Adventure Menu, Ledlenser Leatherman, Goal Zero*

**Hall: 4, Stand: 436**

## MS LINE, s.r.o.

Vykáň 82, 289 15 Kounice  
Czech Republic  
Tel: +420 773 990 626  
E-mail: info@msline.cz  
www.msline.cz

MS Line Ltd. is a Publishing house and Advertising agency in Security and Defence area. MS Line publishes and distributes exclusive magazine Review for Defence and Security Industry and Czech Defence Industry & Security Review (media platform of the Defence and Security Industry Review), IDET NEWS, Security & Defence Technologies Catalogue etc.

**Hall: 3, Stand: 338**

**Media Partner**

## Multinational Logistics Coordination Centre

Vítězné náměstí 1500/5, 160 01 Praha 6

Czech Republic

Tel: +420 973 214 478

Fax: +420 973 214 309

E-mail: [mlcc@army.cz](mailto:mlcc@army.cz)

[www.mlcc-eng.army.cz](http://www.mlcc-eng.army.cz)



Multinational Logistics Coordination Centre (MLCC) is designed to coordinate multinational logistics support, consisting in providing assistance to coalition partners in planning and logistics support to current and future operations led by coalition forces, coordination in the field of training and education in the field of logistics, the development of standardization and interoperability in logistics, analysis, applications, and exchange of experience in operations conducted in the area of logistics, coordination of transport and troop movements and the development of international cooperation, which it exercises on the basis of international agreements concluded between States Parties.

**LCC Specialized Partner**

## MV - GRH HZS ČR, Institut ochrany obyvatelstva

see Ministry of the Interior General Directorate of Fire Rescue Service of the Czech Republic Population Protection Institute

Czech Republic

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

**Hall: 4, Stand: 429**

## N

## NANOMEMBRANE s.r.o.

Czech Republic

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

**Hall: 3, Stand: 323**

## National Cyber and Information Security Agency / Národní úřad pro kybernetickou a informační bezpečnost

Mužednická 1125/31, 616 00 Brno

Czech Republic

Tel: +420 541 110 777

[www.nukib.cz/en](http://www.nukib.cz/en)

Established on 1 AUG 2017 in accordance with the amendments to the Law on Cyber Security as a spinoff of the National Security Authority

Independent civilian governmental agency

Directly subordinated to the Prime Minister

Národní úřad  
pro kybernetickou  
a informační bezpečnost



Central agency in charge of:

Cyber security

Operates National Cyber Security Centre and GOVCERT

Constituency: Critical information infrastructure (both public and private)

GOVCERT a member of FIRST and Trusted Introducers

Protection of classified Information in communication and information systems

Certification of CIS handling classified information

Cryptographic protection (development of national crypto algorithms a devices) TEMPEST Measurement

National PRS Centre (NCPRS)

Fulfills the tasks of CPA (Competent PRS Authority); PRS (Public Regulated Service) is one of the services provided by the European Global Navigation Satellite System Galileo

Responsible for implementation of PRS at national level

Controls access to PRS

Seat in Brno, detachment in Prague Headcount: 177 PAX

Budget: 370 000 000 CZK

**GEOMETOC Specialized Partner**

## National Institute for Nuclear, Chemical and Biological Protection

Kamenná 71, 262 31 Milín

Czech Republic

Tel: +420 318 600 200

Fax: +420 318 626 055

E-mail: [sujchbo@sujchbo.cz](mailto:sujchbo@sujchbo.cz)

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



The National Institute for Nuclear, Chemical and Biological Protection is ISO-certified public research institution established by the State Office for Nuclear Safety (SONS) pursuant to the Act No. 341/2005 Coll. The main purpose of the Institute is performing of research and development tasks in the field of CBRN agents as well as provision of technical support for inspection activities carried out by SONS in radiological protection and verification of the prohibition of chemical and biological weapons.

**CEBIRAM Specialized Partner**

## NATO Centre of Excellence for Military Medicine

44. Róbert Károlyi krt., 1134 Budapest

Hungary

Tel: +36 1 883 0100

Fax: +36 1 883 0127

E-mail: [info@coemed.org](mailto:info@coemed.org)

[www.coemed.org](http://www.coemed.org)



The NATO Centre of Excellence for Military Medicine (MILMED COE) is an international military organisation with the core task to facilitate interoperability between the military medical services in NATO.

**Hall: 4, Stand: 470**

**CEBIRAM Specialized Partner**

## NATO Communications and Information Agency

NATO

[www.ncia.nato.int](http://www.ncia.nato.int)

**FFISC Specialized Partner**

## NATO Energy Security Centre of Excellence

Šilo str. 5A, Vilnius  
Lithuania  
Tel: +370 60485708  
E-mail: juozas.latvys@enseccoe.org  
www.enseccoe.org/en

Created on July 10 and accredited on October 12, 2012, the NATO Energy Security Centre of Excellence (ENSEC COE) currently operates as a widely recognized international military organization with the aim of providing qualified and appropriate expert advice on questions related to operational energy security.

The mission of the ENSEC COE is to assist Strategic Commands, other NATO bodies, nations, partners, and other civil and military bodies by supporting NATO's capability development process, mission effectiveness, and interoperability in the near, mid and long terms by providing comprehensive and timely subject matter expertise on all aspects of energy security. The mission includes cost effective solutions to support military requirements, energy efficiency in the operational field, and interaction with academia and industry.

Energy Security Centre of Excellence:

Provides technical, scientific and academic subject matter expertise in field of energy security that contributes to risk assessment analysis.

Provides energy security related solutions for the development of environmentally friendly and efficient military capabilities in support of Smart Defence.

Provides scientific, technical and academic analysis on various aspects of energy supply and critical energy infrastructure protection in areas of concern to NATO.

Supports NATO Operations through targeted technical scientific assessment, as well as providing advice and solutions for development of energy efficient forces.

Identifies future needs in NATO transformation activities and seek to prevent or mitigate emergent military threats and challenges, which result from the global scarcity of energy resources and the complexity of the international energy system.

Read more: <https://www.enseccoe.org/en/about/6>

**Hall: 4, Stand: 470**

## NATO Explosive Ordnance Disposal Centre of Excellence

Olbrachtova 5, 911 01 Trenčín  
Slovakia  
Tel: +421 960 333 502  
Fax: +421 960 333 504  
E-mail: info@eodcoe.org  
www.eodcoe.org



The EOD COE is one of the tools of the NATO Supreme Allied Commander for Transformation aiming to improve military capabilities, value and efficiency of the Alliance. It was established by Slovakia as the Framework Nation with support of five Sponsoring Nations (CZE, FRA, HUN, POL and ROU). The EOD COE was assessed by ACT HQ team in a period from 19-21 January 2011 and the Centre has successfully met the accreditation criteria. The North Atlantic Council approved the accreditation of the EOD COE and the Centre was activated as an International Military organization on 28 April 2011. The inauguration of the Centre took place in Trenčín on 17 May 2011 as a result of the assessment of the Centre by HQ SACT, which ensures that products and services provided by the accredited EOD COE are consistent with the quality, standards, practices and procedures within NATO.

The EOD COE, since its establishment as a NATO COE has provided products and services consistent with NATO standards, practices and procedures enhancing interoperability of NATO members and partnering nations in fields of EOD. Recognizing its high standards of training and education, in 2016, the Supreme Allied Command Transformation awarded the Centre with a Quality

Assurance Unconditional Accreditation Certificate and the EOD COE became the official NATO and Training Facility.

**Hall: 4, Stand: 470**

**FFISC Specialized Partner**

## NATO Joint Chemical, Biological, Radiological and Nuclear Defence Centre of Excellence

Vita Nejedlého, 682 03 Vyškov  
Czech Republic  
Tel: +420 973 452 805  
Fax: +420 973 452 800  
E-mail: postbox@jcbrncoe.cz  
www.jcbrncoe.cz



The Joint Chemical, Biological, Radiological and Nuclear Defence Centre of Excellence combines skills and expertise from more than 60 personnel from thirteen nations in the area of Concepts, Doctrine Development, Capability Development, Experimentation, Training, Exercises, Education, Lessons Learned, Modelling & Simulation, Reachback and Operational Planning Support, acts as NATO Department Head for WMD/CBRND Training and Education and forms the core of the NATO CBRN Reachback capability. We are also more and more reaching out beyond the pure military and focusing on civil-military co-operation as well as on collaboration with the European Union and other international organizations.

**Hall: 4, Stand: 470**

**CEBIRAM Specialized Partner**

## NATO Land Capability Group on Dismounted Soldier Systems

NATO  
www.nato.int

**FFISC Specialized Partner**

## NATO Modelling & Simulation Centre of Excellence

Piazza R. Villoresi, 1, 00143 Rome  
Italy  
Tel: +39 36 66973825  
www.mscoe.org



The NATO M&S COE is dedicated to the promotion of M&S in support of operational requirements, training and interoperability. The Centre will act as a catalyst for transformation through the involvement of NATO, governments, academia, industry, operational and training entities, by improving the networking of NATO and nationally owned M&S systems, the cooperation between Nations and organisations through the sharing of M&S information and developments and serving as an international source of expertise for transformation in the related domain.

**Hall: 4, Stand: 470**

**MARS Specialized Partner**

## NATO Science & Technology Organization

NATO  
www.sto.nato.int

**FFISC + CEBIRAM + MARS + GEOMETOC Specialized Partner**

## NATO Science & Technology Organization - The Collaboration Support Office

NATO  
[www.cso.nato.int](http://www.cso.nato.int)

### FFISC Specialized Partner

## NET.POINTERS s.r.o.

Litvínovská 609/3, 190 00 Praha 9  
Czech Republic  
Tel: +420 226 531 832  
E-mail: [info@pointers.cz](mailto:info@pointers.cz)  
[net.pointers.cz](http://net.pointers.cz)



net.pointers has been active in cyber security since 2010 as a genuine Czech private company. net.pointers ranks among the pioneers of cyber security in confidential data loss prevention, protection against sophisticated cyber-attacks (APT), detection of unknown malware/ransomware and active protection against DDoS attacks. We offer value added services such as forensic analysis, security audits, stress tests and we're also active in cybersecurity education. Services provided include professional customer support, technology deployment, managed security services, software development and integration of various security systems based on specific customer needs. We focus mainly on the markets of Central and Eastern Europe, Middle East and Asia-Pacific region. Our cyber security customers include mainly internet operators and providers, large multi-national companies, financial institutions and state administration, intelligence services including armed and security forces.

*Represented companies and brands: Arbor Networks*

**Hall: 4, Stand: 480 - Cyber Pavilion**

**FCC Workshop Slot Partner + Live Hacking Zone Partner**

## NETHERLANDS Ministry of Defence

Herculeslaan 1, Utrecht, Netherlands  
Tel: +31 6 53788773  
E-mail: [lm.d.beer@mindef.nl](mailto:lm.d.beer@mindef.nl)  
[www.mindef.nl](http://www.mindef.nl)

The systems that will be shown at the FFF2018 are:

Smart Vest: integrated soldier system consisting of vests, back packs, ballistics, software defined radio, batteries, eco system and vehicle integration  
E-Lighter: man-portable diesel generator to be used as a range extender for military end users

All system form part of the Dutch VOSS program to create enhanced capabilities like improved situation awareness for the combat soldier and peripheral user groups.

**Hall: 4, Stand: 460**

## NIDES s.r.o.

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Czech Republic  
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Fax: +420 541 159 404  
E-mail: [info@nides.cz](mailto:info@nides.cz)  
[www.nides.cz](http://www.nides.cz)



Authorized distributor of the company Safran Vectronix AG which is a global leader in state-of-the-art optronic equipment, systems and sensors for military and civil applications. Handheld Equipment: Pocket Laser Range Finder, Rangefinder Binoculars, Night Vision Monoculars and Goggles, Multifunction Devices. Mounted Equipment: Night Vision Devices Weapon or Vehicle Mounted. Day and Night Orientation Systems: Non-magnetic based target acquisition system. Modules: Digital Magnetic Compass, Laser Range Finder

**Hall: 4, Stand: 434**

## NIGHT PEARL

Czech Republic  
[www.zahoritrade.cz](http://www.zahoritrade.cz)

**Hall: 4, Stand: 400**

## NIGHTLINE, Inc.

United States of America  
[www.nightline.us](http://www.nightline.us)

**Hall: 3, Stand: 346**

## NOVICOM, s.r.o.

Třebohostická 14, 100 00 Praha 10  
Czech Republic  
Tel: +420 271 777 231  
E-mail: [info@novicom.cz](mailto:info@novicom.cz)  
[www.novicom.cz](http://www.novicom.cz)



Novicom is Czech developer of solutions for monitoring, administration and security of large networks. By using its very own technologies, Novicom achieves premium security and operational reliability, even in large distributed networks. Novicom's key products are AddNet and BVS. AddNet is unique integrated DDI/NAC tool which provides highly efficient IP address space management and network access control in large networks. BVS – Business Visibility Suite is a tool for clear visualization of network communications and modeling of business services with IT infrastructure.

**Hall: 4, Stand: 480 - Cyber Pavilion**

**FCC Workshop Slot Partner**

AddNet

BVS

VISIBILITY  
CONTROL  
SECURITY

NETWORK

### Integrovaný DDI/NAC nástroj

Unikátní integrovaná správa a zabezpečení sítě, L2 monitoring. Spolehlivé síťové služby (DHCP/DNS), NAC a pokročilé síťové politiky. Integrace se SOC – distribuovaný sběr dat pro vyhodnocení a okamžitý incident response.

### BUSINESS VISIBILITY SUITE Nástroj pro viditelnost síťových zařízení

Přehledová vizualizace síťových komunikací a modelování souvislostí business služeb s IT infrastrukturou. Správa IT zařízení. Podpora rozhodování operátorů SOC. Migrace do cloudu.

NETWORK  
MANAGEMENT  
HAS NEVER BEEN  
EASIER

## NYKLÍČEK a spol. s.r.o.

Czech Republic  
[www.nyklicekaspol.cz](http://www.nyklicekaspol.cz)

**Hall: 3, Stand: 323**

**O**

## Odbor vojskového průzkumu a elektronického boje MO

Czech Republic  
[www.acr.army.cz](http://www.acr.army.cz)

**FFISC Specialized Partner**

## Office of Military Geography and Hydrometeorology

Czech Republic  
[www.geoservice.army.cz/vghmur-dobruska](http://www.geoservice.army.cz/vghmur-dobruska)

**GEOMETOC Specialized Partner**

## Office of the U.S. Deputy Assistant Secretary of Defense for Threat Reduction and Arms Control

3500 Defense Pentagon, Washington DC  
United States of America  
Tel: +1 703-697-4554  
E-mail: [kathryn.e.zander.ctr@mail.mil](mailto:kathryn.e.zander.ctr@mail.mil)  
[www.acq.osd.mil/ncbdp/trac/index.html](http://www.acq.osd.mil/ncbdp/trac/index.html)

Lead the Department's efforts to counter the proliferation of weapons of mass destruction, thereby decreasing the lethality of global armed forces hostile to the rules-based international order; complete the destruction of the U.S. chemical weapons stockpile in a safe and secure manner under effective resource management; facilitate Departmental readiness to assist with the elimination of foreign chemical and biological weapons; and ensure the Department's compliance with nuclear, chemical, and biological treaties and agreements to maintain our strong international alliances and partnerships.

**Hall: 4, Stand: 417**

## OLYMPIA TRIUMPH MANUFACTURING

15 Westminster Road, Wareham, Dorset BH20 4SP  
United Kingdom  
Tel: +44 1929 555 350  
Fax: 44 1929 550 894  
E-mail: [sales@olytri.com](mailto:sales@olytri.com)  
[www.olytri.com](http://www.olytri.com)

For the last 40 years Olympia Triumph have been designing and manufacturing a range of specialist military equipment for urban entry and maritime boarding operations. Designed with input from many of the world's leading Special Forces units, we have an extensive range of products to get your team to their target.

**Hall: 3, Stand: 333**

## OPS-CORE

United States of America  
[gentexcorp.eu.com](http://gentexcorp.eu.com)

**Hall: 3, Stand: 346**

## OPTOKON, a.s.

Červený Kříž 250, 586 01 Jihlava  
Czech Republic  
Tel: +420 564 040 111  
E-mail: [optokon@optokon.com](mailto:optokon@optokon.com)  
[www.optokon.com](http://www.optokon.com)



OPTOKON, a.s. is a leading Czech manufacturer and supplier of comprehensive ICT system solutions to the defense and security segment. The company employs a team of professionals who integrate OPTOKON products into leading third-party domestic and foreign technologies. This creates a comprehensive solution that delivers the ultimate in functionality for users. OPTOKON will present at the Future Forces Forum the state-of-the-art C4ISR Martin communication and information system, which offers a full range of services (complex connection of the tactical radio data network, video server services, creation of a tactical command site and a system for roofing and motion tracking using a specially developed optical cable). OPTOKON Detection Device JOSS-100 is a technology based on the analysis of signals in the optical cable that changes the characteristics of the vibration in its area. One segment of this technology can detect noise and vibrations within 100 km. All OPTOKON devices fully comply with STANAG and all standards for harsh environmental climatic conditions and are approved for use by NATO. The NATO Supplier code for OPTOKON is 1583G. We stand apart through innovation, a diverse range of products and a focus on customer satisfaction.

**Hall: 3, Stand: 350**

**Gold Partner of FFISC Panel C4ISTAR**

## OUVRY SAS

ZA Gorge de Loup, 24 avenue Joannès Masset, 69009 Lyon, France  
Tel: +33 4 8611 3202  
Fax: +33 4 8611 3805  
E-mail: [info@ouvry.com](mailto:info@ouvry.com)  
[www.ouvry.com](http://www.ouvry.com)

Created in 2003, Ouvry specializes in CBRN personal protective systems, and is located in France. The product portfolio covers body and respiratory protection, decontamination, as well as innovative products as CWA simulants for training and exercises. Ouvry's products are intended for a wide range of operators: soldiers and law enforcement staff, firefighters and rescue operators, first-responders, public security civil defence, ministry of health, industry, critical infrastructures and public transportation.

**Hall: 3, Stand: 332**

**P**

## PALO ALTO NETWORKS

De Entrée 99-197, Oval Tower, Floor 1,  
1101 HE Amsterdam  
Netherlands  
Tel: +420 724 825 963  
E-mail: [plechman@paloaltonetworks.com](mailto:plechman@paloaltonetworks.com)  
[www.paloaltonetworks.com](http://www.paloaltonetworks.com)



We are the global cybersecurity leader, known for always challenging the security status quo. Our mission is to protect our way of life in the digital age by preventing successful cyberattacks. This has given us the privilege of safely enabling tens of thousands of organizations and their customers. Our pioneering Security Operating Platform safeguards your digital transformation with continuous innovation that combines the latest breakthroughs in security, automation, and analytics. By delivering you a true platform and empowering a growing ecosystem of change-makers like us, we provide you highly effective and innovative cybersecurity across clouds, networks, and mobile devices. Around the world, customers love our security, consistently awarding us the highest loyalty ratings and net promoter scores in the industry.

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**FCC Workshop Slot Partner**

## PANASONIC - Computer Product Solutions

Panasonic Marketing Europe GmbH,  
organizační složka Česká republika, Corso II.a,  
Křížkova 148/34; 186 00 Prague 8  
Czech Republic  
Tel: +420 234 294 112  
E-mail: [info@toughbook-panasonic.eu](mailto:info@toughbook-panasonic.eu)  
[www.toughbook.eu](http://www.toughbook.eu)

Panasonic Computer Product Solutions gives mobile workers the freedom to work anywhere with its range of Toughbook rugged notebooks, Toughpad business tablets and electronic point of sales (EPOS) systems. As European market leaders, Panasonic had a 57% revenue share of sales of rugged and durable notebooks and rugged business tablets in 2017 (VDC Research, March 2018).

**Hall: 4, Stand: 467**

## PARDAM, s.r.o.

Czech Republic  
[www.pardam.cz](http://www.pardam.cz)

**Hall: 3, Stand: 323**

## PENNANT International Group PLC

United Kingdom  
[www.pennantplc.co.uk](http://www.pennantplc.co.uk)

**Hall: 3, Stand: 346**

**Panasonic**  
BUSINESS

**TOUGHBOOK**

**TOUGHPAD**



## PHONEXIA

Chaloupkova 1a, 612 00 Brno  
Czech Republic  
Tel: +420 511 205 265  
E-mail: [miroslav.jirku@phonexia.com](mailto:miroslav.jirku@phonexia.com)  
[phonexia.com](http://phonexia.com)

Phonexia transforms voice to knowledge with its innovative speech analytics and voice biometrics technologies. Its Phonexia Speech Engine is the first on the market using exclusively deep neural networks to provide extremely accurate and fast results. The Phonexia Speech Platform packs a wide range of speech technologies into a single, highly modular platform that is easy to integrate with other solutions. A university spin-off, Phonexia has been delivering its technologies to call-centers, financial institutions, and security agencies in more than 60 countries since 2006.

**Hall: 4, Stand: 480 - Cyber Pavilion**

**Biometrics Conference Partner with Speaker Slot**

## Police Academy / Policejní akademie

Czech Republic  
[www.polac.cz](http://www.polac.cz)

**Hall: 4, Stand: 480 - Cyber Pavilion**



Distributor pro ČR a SR



**Palo Alto Networks** je lídrem v oblasti IT bezpečnosti nové generace, zajišťuje důvěryhodnost organizací v digitálním věku. Pomáhá desítkám tisíc klientů po celém světě předcházet kybernetickým útokům.

### Požadavky na Firewall

- ▶ Musí zajistit vzhled do provozu a identifikovat aplikace nezávisle na použitém protokolu a portu včetně šifrovaného odchozího i příchozího provozu.
- ▶ Musí identifikovat vazbu IP adresy a uživatelského jména a poskytnout možnost vytvořit pravidla na základě uživatelské identity.
- ▶ Musí chránit před známými i neznámými hrozbami ve všech aplikacích na všech portech. Každá aplikace, která je schopna přenášet soubor, může přenášet i škodlivý kód.
- ▶ Musí umožnit vynucení tzv. positive security modelu – povolit pouze žádoucí provoz a zakázat vše ostatní.

Pokud se chcete dozvědět více o pokročilé technologii Palo Alto Networks, podívejte se na [www.nextgenfw.cz/akce](http://www.nextgenfw.cz/akce), kde najdete kalendář technických seminářů, případně se neváhejte obrátit přímo na [paloaltonetworks\\_cz@techdata.com](mailto:paloaltonetworks_cz@techdata.com).



**Strategic**  
MI/CI



**Tactical**  
MI/CI



**Archive Search**  
LEA/Police



**Forensic**  
Forensic Labs

Phonexia provides a complete portfolio of **speech technologies** specifically designed for the **security** and **defense sector**. Using the strength of **voice biometrics** and **speech analytics** technologies, achieve powerful automatic speaker spotting and speech content analysis.

Visit us in Hall 4, stand 480 - Cyber Pavilion

**phonexia.com**

## POLICE of the Czech Republic

Strojnická 27, 170 89 Praha 7  
Czech Republic  
Tel: +420 974 811 111  
E-mail: [epodatelna.policie@pcr.cz](mailto:epodatelna.policie@pcr.cz)  
[www.policie.cz](http://www.policie.cz)

Outdoor exhibition of service vehicles, helicopters, special large vehicles for the transport of dangerous materials and a tractor excavator on remote control.

Live demonstration – The Police of the Czech Republic, The Fire Rescue Service and The Medical Rescue Service - (interventions against armed perpetrators/drug dealers during the handover of packages)

Indoor exhibition – A mobile ballistic experimental workplace, the equipment of The Explosive Ordnance Disposal Unit and The Special Public Order Police Unit (equipment and armament of the Police of the Czech Republic).

**Hall: 4, Stand: 450A + 450B + VP**

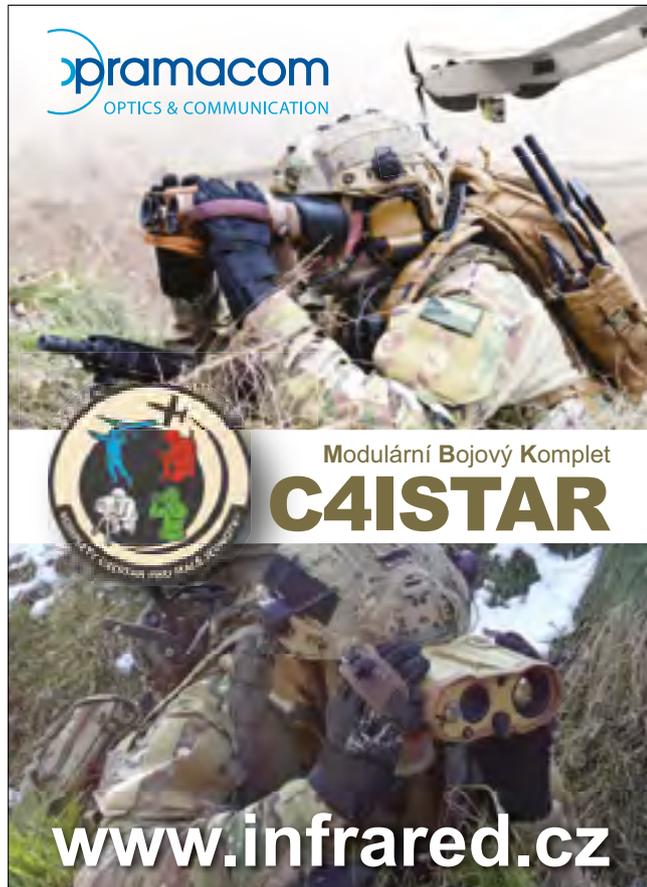
## PORELLE MEMBRANES

Estuary Road, Kings Lynn, PE30 2HS  
United Kingdom  
Tel: +44 7961758769  
E-mail: [mwhiskens@pilmembranes.com](mailto:mwhiskens@pilmembranes.com)  
[www.porellemembranes.com](http://www.porellemembranes.com)

Porelle is an innovative range of waterproof, breathable membranes with options optimised for use in technical apparel for military, fire-fighters, police, emergency services, industrial and institutional wear. The porelle membrane range has been engineered for extreme, high performance outerwear requiring maximum waterproofness, breathability and windproof protection.

*Represented companies and brands: Permail*

**Hall: 3, Stand: 308**



**pramacom**  
OPTICS & COMMUNICATION

Modulární Bojový Komplet  
**C4ISTAR**

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

## PRAMACOM-HT, spol.s r.o.

Na pískách 1667/36, 160 00 Praha 6  
Czech Republic  
Tel: +420 588 188 401  
Fax: +420 220 514 234  
E-mail: [infrared@infrared.cz](mailto:infrared@infrared.cz)  
[www.infrared.cz](http://www.infrared.cz)



PRAMACOM-HT is involved into development, integration, delivery and service of opto-electronics and C4ISTAR systems for dismounted deployment. Development is primarily devoted to multi-spectral fusion in NIR, SWIR and LWIR bands. The

company supplies systems integrating key technologies of ISTAR including unmanned aerial vehicles (UAV).

Company has certificate ISO 9001/140001.

*Represented companies and brands: AeroVironment Inc., Bren-Tronics, Inc., NIVISYS, LLC., Safran Electronics and Defense, LRAD Corporation, Crye Precision, LLC., Thales Defense and Security, Inc., PERSISTENT SYSTEMS, LLC., RAYTHEON Company, CILAS Ariane Group, DILLON AERO Inc.*

**Hall: 3, Stand: 303**

## PRISON SERVICE of the Czech Republic

Soudní 1672/1a, 140 67 Praha 4  
Czech Republic  
Tel: +420 244 024 111  
Fax: +420 244 024 809  
E-mail: [e-podatelna@grvs.justice.cz](mailto:e-podatelna@grvs.justice.cz)  
[www.vscr.cz](http://www.vscr.cz)

The task of the Prison Service of the Czech Republic is to ensure/maintain pre-trial detention, execution of sentence, forensic detention, and keep law and order in buildings of Ministry of Justice, courts and other judicial objects. The Prison Service also keeps law and order, and security in prisons and forensic detention facilities. Last but not least, penological research also belongs to the Prison Service's main tasks and responsibilities.

**Hall: 4, Stand: 449 + VP**

## PROAMMO Central Europe

Kvapilova 9, 150 00 Praha 5  
Czech Republic  
Tel: +420 774 422 274  
E-mail: [denis@proammo.cz](mailto:denis@proammo.cz)  
[www.proammo.cz](http://www.proammo.cz)

PROAMMO Central Europe is engaged in the production of ballistic protection under the HD TEC brand primarily for armed forces. It also deals with the sale of ballistic protective equipment, the tactical equipment of world brands and the sale of weapons and ammunition.

**Hall: 4, Stand: 430**

## PROENGIN

1 rue de l'Industrie, 78210 Saint-Cyr-l'Ecole  
France  
Tel: +33 604 678244  
E-mail: [gln@proengin.com](mailto:gln@proengin.com)  
[www.proengin.com](http://www.proengin.com)

PROENGIN: Excellence in CBRN threat Management !

Proengin is a French company founded in 1972 that develops, manufactures and markets Chemical and Biological detection systems.

Proengin's sensors are designed to detect in few seconds very small quantities (some micrograms per cubic meter) of chemical warfare agents of all kinds, from mustard gas that was used during World War-I to the most recent Novichok agents that had stricken four persons in UK recently.

Besides chemical agents the same sensors detect biological warfare agents such as Anthrax.

The technology used by Proengin, flame spectrophotometry, is unique in CBRN field.

This technology consists in burning gas or particles (in a small flame) and analyze the light of the flame.

The different spectra of that light gives the nature of the atoms burned in the flame and therefore the presence of toxic chemical or biological warfare agents.

**Hall: 4, Stand: 416**

## PROPEL LLC

999 Main St Unit 106 Pawtucket, RI 02860  
United States of America  
Tel: +1 401 722 4491  
Fax: +1 401 256 5330  
E-mail: cking@propel-llc.com  
www.propel-llc.com

Propel LLC designs and develops textile driven technologies to make those in the military and fire services safer. We develop highly innovative solutions for clothing systems including job specific garment design and engineering, electrically-enabled textiles and personal protection in extreme environments.

*Represented companies and brands: Quiet Loop*

**Hall: 4, Stand: 446**

## PSM PROJEKT SYSTEM & MANAGEMENT GmbH

Wilhelmshöher Allee 262, 34131 Kassel, Germany  
Tel: +49 561 5107 - 0  
Fax: +49 561 5107 - 199  
E-mail: info@psm-spz.de  
www.psm-spz.com

PSM Projekt System & Management GmbH, a joint venture of Rheinmetall Landsysteme GmbH and Krauss-Maffei-Wegmann GmbH & Co. KG, is the prime contractor for the German PUMA IFV and responsible for development, manufacturing and after sales service as well as international sales.

*Represented companies and brands: Infantry Fighting Vehicle PUMA*

**Hall: 3, Stand: 351**

## Q

### Q CYBER TECHNOLOGIES

46A, Avenue John F.Kennedy, 1855 Luxembourg  
Tel: +972544772214  
E-mail: korins@q.co  
qcybertechnologies.com

Q Cyber Technologies is a global leader in the world of cyber-intelligence data acquisition and analysis. Our portfolio of high-end operational and analytical tools has been developed through years of focused research, development and operational experience. The Q suite is used to combat terrorism and crime, preserve national security and make the world a safer place. Our mission has always been to equip select reputable intelligence organizations, law enforcement agencies, and military intelligence with the strategic, tactical, and analytical capabilities required to ensure the success of their operations. Our technology is target-centric and service provider-independent. The product portfolio enables government agencies to identify their targets, locate them, and gather valuable intelligence from their mobile phones without compromising user service and experience.

**Hall: 4, Stand: 439**

## QINETIQ North America

350 Second Avenue, Building 1, Waltham, MA 02451  
United States of America  
Tel: +1 781 684 4000  
E-mail: contactus@qinetiq-na.com  
www.qinetiq-na.com

For over 50 years, QinetiQ North America (QNA) has been providing world-class technology development, engineering research and development and revolutionary products to the defense, security and commercial markets.

Our product offerings include unmanned systems, vehicle and soldier protection, maritime systems and power sensors and control systems. Customers rely on QNA to increase readiness and situational awareness, protect people and critical assets, improve manufacturing processes, streamline operations and even save lives.

QNA is headquartered in Waltham, MA with offices in Franklin, MA, Pittsburgh, PA and Ashburn, VA.

QinetiQ North America is a wholly owned, independently operated subsidiary of QinetiQ Group PLC, one of the world's leading defense and security technology companies.

**Hall: 3, Stand: 311**

## R

### R&T ČR, s.r.o.

Karlštejnská 32, 252 17 Chýnice  
Czech Republic  
Tel: +420 602 213 747  
E-mail: luxfer@luxfer.cz  
www.luxfer.cz

Composite cylinders for Firefighters and HAZMAT, High-pressure cylinders for Emergency Services, Flameless self-heating meals and ration heaters.

*Represented companies and brands: Luxfer Magtech, Luxfer Gas Cylinders*

**Hall: 4, Stand: 448**

### RAY SERVICE, a.s.

Huštěnovská 2022, 686 03 Staré Město  
Czech Republic  
Tel: +420 777 835 474  
E-mail: pavel.trubacik@rayservice.com  
www.rayservice.com

Ray Service is a Czech innovative manufacturing and trading company providing outstanding solutions in cable harnesses, electromechanical assemblies, electronic equipment and cable components for a wide range of aviation and defence customers.

*Represented companies and brands: Beth-El Industries; DST Defence Service Tracks GmbH; IDE INTRACOM Defense Electronics; Kidde-Deugra Brandschutzsysteme GmbH*

**Hall: 3, Stand: 352**

### REAL TARGET s.r.o.

Nitranská 894/8, Vinohrady, 101 00 Praha 10  
Czech Republic  
Tel: +420 602 366 131  
E-mail: info@realtarget.cz  
www.realtarget.cz

A Czech company REAL TARGET s.r.o. specializes in the development and manufacturing of 3D shooting targets.

The 3D targets are designed so as to simulate shooting at real targets and improve the quality of shooting training.

**Hall: 4, Stand: 413**

**REBTECH**

United States of America  
[www.rebtechnvg.com](http://www.rebtechnvg.com)

**Hall: 3, Stand: 346**

**Reconnaissance and Electronic Warfare  
Branch, MoD**

Czech Republic  
[www.acr.army.cz](http://www.acr.army.cz)

**FFISC Specialized Partner**

**Research Institute of Geodesy, Topography  
and Cartography, v.v.i.**

Ústecká 98, 250 66 Zdíby  
Czech Republic  
Tel: +420 226 802 338  
Fax: +420 284 890 056  
E-mail: [kalibrace@vugtk.cz](mailto:kalibrace@vugtk.cz)  
[www.vugtk.cz](http://www.vugtk.cz)



The institute's mission is basic and applied research in geodesy and cadastre, developing and testing new technologies, methods and software and professional consultation in areas of:

Creation and management of Cadastre of Real Estate Information System (ISKN)

Creation and management of geographic information systems

Geodesy, geodynamics

Engineering geodesy

Metrology and standardization in the fields of Geodesy and Cadastre

Creation and maintenance of maps

Qualities of geospatial data according to ČSN EN ISO 19157

Development of user applications over data of surface digital model of the Czech Republic

Photogrammetry and remote sensing

Development and production of special tools, equipment and measurement systems for geodesy and cartography.

The institute runs Authorized Metrological Centre, Accredited Calibration Laboratory, Surveying Library®. The Institute holds state accreditation as educational institution.

**GEOMETOC Specialized Partner**

**REVISION**

61 Avenue de la Gare  
Luxembourg  
Tel: +1 802 879 7002  
Fax: +1 802 879 7224  
E-mail: [InternationalSales@revisionmilitary.com](mailto:InternationalSales@revisionmilitary.com)  
[www.revisionmilitary.com](http://www.revisionmilitary.com)

Revision develops and delivers purpose-built protective soldier equipment for military use worldwide. The company, which began with eyewear, has expanded to face, head and torso protection as well as energy storage and power management products, continues to develop innovative capabilities for integrated, performance-enhancing soldier systems.

**Hall: 3, Stand: 304**

**RHEINMETALL**

**Ceska republika s.r.o.**

Dulni 362/2, 40004 Trmice  
Czech Republic  
Tel: +420 722 302 526  
E-mail: [oliver.mittelsdorf@rheinmetall.com](mailto:oliver.mittelsdorf@rheinmetall.com)  
[www.rheinmetall.com](http://www.rheinmetall.com)

Rheinmetall Group – The technology group for mobility and security

**Hall: 3, Stand: 337**

**FFF Specialized Partner**



**RHEINMETALL Defence Electronics GmbH**

Germany  
[www.rheinmetall-defence.com](http://www.rheinmetall-defence.com)

**Hall: 3, Stand: 339**



**ROHDE & SCHWARZ - Praha, s.r.o.**

Hadovka Office Park, Evropská 2590/33c, 160 00 Praha 6, Czech Republic  
Tel: +420 224 311 232  
E-mail: [office.rscz@rohde-schwarz.cz](mailto:office.rscz@rohde-schwarz.cz)  
[www.rohde-schwarz.com/cz](http://www.rohde-schwarz.com/cz)

Founded more than 80 years ago, Rohde & Schwarz is one of the world's leading manufacturers of information and communications technology products for professional users. The Rohde & Schwarz technology group focuses on test and measurement, cybersecurity, secure communications and monitoring, network testing and broadcast and media, areas that address many different industry and government-sector market segments. The independent company is headquartered in Munich, Germany with an extensive sales and service network in more than 70 countries.

A separate branch of Rohde & Schwarz in the Czech Republic - ROHDE & SCHWARZ – Praha was established in 1995 which not only supplies the Group's products to its customers but also comprehensive system solutions including implementation, warranty and post-warranty service and calibration in all areas of Rohde & Schwarz.

One of the three production plants of Rohde & Schwarz, ROHDE & SCHWARZ – Vimperk was opened in Vimperk in 2001, which employs more than 700 people and is continuously expanding its production portfolio in all production areas.

**Hall: 3, Stand: 302**

**Silver Partner of FFISC Panel C4ISTAR**



**SAFRAN VECTRONIX AG**

Max-Schmidheiny-Strasse 202, 9435 Heerbrugg  
Switzerland  
Tel: +41 71 726 7200  
E-mail: [vectronix@safrangroup.com](mailto:vectronix@safrangroup.com)  
[www.safran-vectronix.com](http://www.safran-vectronix.com)

Observe and Locate – Day and Night. Safran Vectronix AG is a global leader in state-of-the-art optronic equipment, systems and sensors for military and civil applications. Handheld Equipment: Pocket Laser Range Finder, Rangefinder Binoculars, Night Vision Monoculars and Goggles, Multifunction Devices. Mounted Equipment: Night Vision Devices Weapon or Vehicle Mounted. Day and Night Orientation Systems: Non-magnetic based target acquisition system. Modules: Digital Magnetic Compass, Laser Range Finder

**Hall: 4, Stand: 434**

## SAPPHIRE FINISHING MILLS LIMITED

3.5 km, Raiwind Manga Road - Raiwind, Lahore  
Pakistan

Tel: +92 301 848 10  
E-mail: [marketing@sapphiremills.com](mailto:marketing@sapphiremills.com)  
[www.sapphiremills.com](http://www.sapphiremills.com)

We are vertically integrated textile manufacturing company, with a legacy of more than 40 years. We have the capacity and the capability of Dyeing, Finishing and Printing fabrics suitable for end user applications across all industry sectors. with an operational capacity of 6 Million meter/month.

At SAPPHERE, we not only provide quality products and services - We build partnerships We believe that SAPPHERE being a one window shop will really be an interesting option to explore and are confident to serve as a reliable long term partner. We started as single spinning unit in 1970 but today we are a vertically integrated textile group with our own Yarn Spinning, Weaving, Woven Dyeing & Finishing, printing and garment manufacturing facilities, comprising of 24 units all across Pakistan. This gradual growth itself speaks of our commitment and proactive approach towards the new and ever growing challenges. SAPPHERE is one of the premium textile group of Pakistan with over 40 years of legacy in quality textile products. With over 18,000 employees, annual turnover touching a billion dollar mark and an export to more than 30 countries, SAPPHERE, without any doubt is a reliable source for all your textile needs.

**Hall: 3, Stand: 307**

## SARENA INDUSTRIES & EMBROIDERY MILLS PVT LTD

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Pakistan

Tel: +92 42111222800  
E-mail: [rao.umar@sarenapk.com](mailto:rao.umar@sarenapk.com)  
[www.sarenapk.com](http://www.sarenapk.com)

Sarena industries is producing 66 million dyed fabric, 24 million greige fabric and 1200,000 garments per year.

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*Represented companies and brands: PROBAN*

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## SCHUBERTH GmbH

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Tel: +49 391 8106 110  
E-mail: [militaer-polizei@schubertth.com](mailto:militaer-polizei@schubertth.com)  
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SCHUBERTH develops and produces in Magdeburg on the Elbe.

The portfolio: helmets for worker protection, military, police, fire brigade, Formula 1 sports and motor cycling. Renowned Formula 1 pilots rely on SCHUBERTH helmets as much as numerous life savers and protectors from professional areas. We are proud of that.

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**Hall: 3, Stand: 346**

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**Hall: 3, Stand: 323**

## SINTEX, a.s.

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## SMITH ELITE

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**Hall: 3, Stand: 323**



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see National Institute for Nuclear, Chemical and Biological Protection

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**Hall: 3, Stand: 323**

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## T

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

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Netherlands  
Tel: +31 548 633620  
E-mail: protectivefabrics@tencatefabrics.com  
tencatefabrics.com

TenCate Protective Fabrics is a leading global producer of protective fabrics. We design, develop and produce a broad range of products engineered to satisfy the continually evolving needs of industry workers, as well as firefighters and military and police personnel.

Over the years TenCate Protective Fabrics has been the driving force for change and innovation in these varied applications where professionals demand the highest standards for safety. We also believe that optimal performance results from a perfectly balanced mix of features between protection, comfort and durability adequately serving a diverse array of working and risk environments. This is why our primary ambition is always to create breakthrough innovations driven by an unmatched understanding of end use applications.

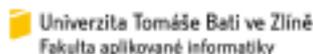
**Hall: 4, Stand: 461**

## THERMOTEKNIK Systems Ltd.

United Kingdom  
www.thermoteknix.com  
**Hall: 4, Stand: 400**

## TOMAS BATA UNIVERSITY in Zlín - Faculty of Applied Informatics

Nad Stráněmi 4511, 760 05 Zlín  
Czech Republic  
Tel: +420 576 035 221  
Fax: +420 576 035 279  
E-mail: info@fai.utb.cz  
www.fai.utb.cz



The inauguration of a faculty focused on Applied Sciences as an independent element of Tomas Bata University in Zlín is the logical result of the University's efforts to succeed in the Information Technology field. The Faculty of Applied Informatics (FAI) was established on 01.01.2006 through the transformation of the existing Institute for Process Control and Applied Informatics (IRPI) at the Faculty of Technology which, in turn, had been founded in the first half of 2004, and came into being through the restructuring of the Institute of Information Technology. The foundations of the latter institution was the Institute (formerly Department) of Automation and Control Technology, which had existed for more than 14 years at the Faculty of Technology at the time

(The Department of Automation was established on 01.09.1986).

Research activities of department of security engineering:

Security theory,  
Physical security and property protection,  
Commercial security technology,  
Alarm systems (alarm security systems, access control systems, CCTV, Fire Alarm)  
Information technology to support crisis management,  
Detective work and professional defense,  
Protection and resilience of critical infrastructure,  
Modelling of crisis situations.

Actual security research projects, founded by Czech Republic Ministry of Interior :

VI20172019073 - Identification and methods of protection of Czech soft targets against violent acts with elaboration of a warning system  
VI20172019054 - An analytical software module for the real-time resilience evaluation from point of the converged security  
VI20152019049 - RESILIENCE 2015: Dynamic Resilience Evaluation of Interrelated Critical Infrastructure Subsystems

**Hall: 4, Stand: 405**

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## TOMAS BATA UNIVERSITY in Zlín - Faculty of Logistics and Crisis Management

Studentské nám. 1532, 686 01 Uherské Hradiště  
Czech Republic  
Tel: +420 576 032 080  
E-mail: dekanat@flkr.utb.cz  
www.flkr.utb.cz



The Faculty of Logistics and Crisis Management (FLCM) of Tomas Bata University in Zlín was established on 1 September 2009 and is its youngest faculty. It builds on the educational and research activities of the Institute of Security Technologies in Uherské Hradiště, which belonged to the Faculty of Technology. FLCM currently offers studies in the following accredited bachelor's degree programmes: Study Programme of Process Engineering, Risk Management (also combined form of study), Study programme of Population Protection, Population Protection (also in combined form of study) and study programme Security of the Society, Environmental Risk Management, and from the academic year 2016/2017 students can also study in the follow-up Master's degree programme Security of the Society. In its research and development activities, the FLCM focuses on logistics, logistics and crisis management, issues of population protection, emergency management, crisis management and planning, risk analysis and assessment, and environmental safety. The aim of the faculty is to continuously improve the teaching of study programmes and fields so that its graduates are as competitive as possible on the labor market.

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www.tovek.cz



Tovek offers a comprehensive solution to structured and unstructured data processing and analytics, whether it be text, speech, or visual data. Working with multilingual data; speech biometrics; active knowledge maps; sharing knowledge; link, geographical, and temporal visualisation; entity extraction; advanced security; and much more.

We have 25 years of experience with the needs of the investigation,

intelligence, and defense analysts. The Tovek Intelligence Platform was developed, designed, and made in the Czech Republic.

*Represented companies and brands: Tovek Intelligence Platform, Tovek Tools, Tovek Server*

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## TRANSAERO

United States of America  
www.aviationpros.com

**Hall: 3, Stand: 346**

## TTC TELEKOMUNIKACE, s.r.o.

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E-mail: sales@ttc.cz

www.ttc-telekomunikace.cz

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**Hall: 3, Stand: 342**

## U

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www.unob.cz



The UNIVERSITY OF DEFENCE is responsible for education of military professionals and other experts engaged in national security and defence.

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URC Systems has been developing the comprehensive solutions to address the demanding needs of our customers since 1998. Our complete value chain provided to our customers contains research and development, manufacturing, after-sale service and user training in the areas:

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*Represented companies and brands: QinetiQ North America, DOK-ING*

**Hall: 3, Stand: 311**

## Ústav fyziky materiálů Akademie věd ČR, v. v. i.

see Institute of Physics of Materials, Czech Academy of Sciences

Czech Republic

www.ipm.cz

**Hall: 4, Stand: 406**

## V

## VAKUFORM spol.s r. o.

Czech Republic

www.vakuform.cz

**Hall: 3, Stand: 323**

## Vězeňská služba České republiky

see Prison Service CR

Czech Republic

www.vscr.cz

**Hall: 4, Stand: 449 + VP**

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## VIENNA HOUSE DIPLOMAT PRAGUE

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E-mail: [vop@vop.cz](mailto:vop@vop.cz)  
[www.vop.cz](http://www.vop.cz)



VOP CZ is state owned company issued by Czech MOD and oriented to defence and security area. The company is focused on development, manufacture, service, modernisation and entire lifecycle support of military ground equipment, especially for Czech Army. In 2017, VOP CZ reached a turnover of EUR 48 million. It employs 870 people.

Represented companies and brands: ARQUUS

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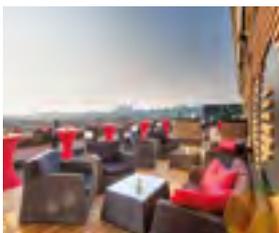
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The company is a subsidiary of LOM PRAHA government enterprise, established by the Czech Republic Ministry of Defence. Its headquarters resides in Prague and the branches are located in Brno and Vyskov.

VR Group focuses its activities on the following areas:

Development of new products to support training of ground and air forces according to current requirements on the equipment and the characteristics of the combat and non-combat operations,

Development of simulation systems for training of the security authorities including members and staff of the Crisis Management System,

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see Research Institute of Geodesy, Topography and Cartography  
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## W

## W. L. GORE & ASSOCIATES GmbH

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www.gore-workwear.com



W. L. Gore & Associates is a global materials science company dedicated to transforming industries and improving lives.

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GORE® Military Fabrics offer durable protection against hazards in the field. Best known for its GORE-TEX Technical Garments, which are designed to provide durable waterproof and windproof protection paired with optimized breathability, Gore offers now an innovative fabrics technology for military rain suits.

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GORE-TEX Footwear provides maximum protection, promotes agility and offers perfect climate management.

At this year's Future Forces Forum the Gore partner CARINTHIA - Goldeck Textil GmbH (hall: 3 / stand: 305) is exhibiting products engineered with GORE-TEX product technologies.

Represented companies and brands: GORE-TEX; GORE®; PYRAD®

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Denmark  
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E-mail: info@tactical.eu  
www.wileyx.eu

Wiley X is a global leader in the protective eyewear market supplying military forces and law enforcement personnel with top of the line ballistic eyewear.

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## WOJSKO I TECHNIKA MAGAZINE Zespół Badań i Analiz Militarnych Sp. z o.o.

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E-mail: [office@zbiam.pl](mailto:office@zbiam.pl)  
[www.zbiam.pl](http://www.zbiam.pl)

Wojsko i Technika - Bezpieczeństwo, Uzbrojenie, Przemysł (Armed Forces and Technology - Security, Armament, Defence Industry) monthly magazine with a circulation of 14,990 copies is a professionally edited magazine which focuses on the most important problems of the Polish military, security and defense industry. Much attention is paid on the current political and military situation in the region, new models of armament and military equipment, weaponry exhibitions, current tenders and laid contracts.

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**Y**

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**Z**

## ZAHORI TRADE s.r.o.

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E-mail: [lenka.jantula@zahoritrade.cz](mailto:lenka.jantula@zahoritrade.cz)  
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Company ZÁHOŘÍ TRADE s.r.o. represents the leading manufacturer of night vision and thermal imaging and weapon sights and systems for identifying and detecting unwanted persons such as Thermoteknix Systems Ltd. And Exensor Technology Ltd., not only on the civilian market but also on the military market. In last years ZÁHOŘÍ TRADE has been focusing on developing and manufacturing its own and OEM night vision and thermal devices under the brand Night Pearl using the latest technologies. Finally ZÁHOŘÍ TRADE has facilities allowing to do repairs and services of similar devices.

Thermoteknix Systems Ltd. is a dynamic and innovative team capable of both off-the-shelf and customised thermal, night vision and fused night vision solutions. Over the years, many groundbreaking and now industry-standard technologies have been developed by Thermoteknix responding to the demanding challenges brought to us by our clients.

Exensor Technology Ltd. is a world leading supplier of Networked Unattended Ground Sensor (UGS) Systems providing tailored sensor solutions to customers all over the world. From our Headquarters in Lund Sweden, our center of expertise in Network Communications at Communications Research Lab in Kalmar Sweden and our Production site outside of Basingstoke UK, we design, develop and produce latest state of the art rugged UGS solutions at the highest quality to meet the most stringent demands of our customers. Our systems are in operation and used in a wide number of Military as well as Home land Security applications worldwide.

*Represented companies and brands: Night Pearl, Thermoteknix System Ltd., Exensor Technology AB,*

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## Zdravotnická záchranná služba Jihočeského kraje

see Medical Rescue Service of South Bohemia Region

Czech Republic  
[www.zzsck.cz](http://www.zzsck.cz)

**Hall: 4, Stand: 451 + VP**

## ZEBRA

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GLOMEX MS, s.r.o.	hall: 3, stand: 346
HEXONIA GmbH	hall: 3, stand: 301
INTERCOLOR a. s.	hall: 3, stand: 323
KARRIMOR SF	hall: 3, stand: 341
MAWASHI SCIENCE & TECHNOLOGY	hall: 4, stand: 437
PROAMMO Central Europe	hall: 4, stand: 430
STAP a. s.	hall: 3, stand: 323

**1604 Body Armours**

ARGUN s.r.o.	hall: 3, stand: 354
C.P.E. Production Oy	hall: 4, stand: 441
CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
CONCORDIA TEXTILES N.V.	hall: 3, stand: 334
CSC European Defense Business Management GmbH	hall: 4, stand: 431
ESTAMBRIIL INTERNATIONAL	hall: 3, stand: 334
GARANT PROTECTION	hall: 4, stand: 438
GLOMEX MS, s.r.o.	hall: 3, stand: 346
HEXONIA GmbH	hall: 3, stand: 301
HUDYsport a.s.	hall: 3, stand: 345
INTERCOLOR a. s.	hall: 3, stand: 323
KARRIMOR SF	hall: 3, stand: 341
MAWASHI SCIENCE & TECHNOLOGY	hall: 4, stand: 437
OPS-CORE	hall: 3, stand: 346
PROAMMO Central Europe	hall: 4, stand: 430

**1605 Bullet-proof Vests, Flak Jackets, Vests**

4M SYSTEMS a.s.	hall: 3, stand: 325
ARGUN s.r.o.	hall: 3, stand: 354
BO GWANG TEXTILE CO., LTD.	hall: 4, stand: 463
C.P.E. Production Oy	hall: 4, stand: 441
ČESKÁ ZBROJOVKA	hall: 3, stand: 325
CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
CONCORDIA TEXTILES N.V.	hall: 3, stand: 334
CSC European Defense Business Management GmbH	hall: 4, stand: 431

ESTAMBRIIL INTERNATIONAL	hall: 3, stand: 334
GLOMEX MS, s.r.o.	hall: 3, stand: 346
HEXONIA GmbH	hall: 3, stand: 301
HUDYsport a.s.	hall: 3, stand: 345
INTERCOLOR a. s.	hall: 3, stand: 323
JSC "KSF "Peredovaya tekstilshchitsa"	hall: 4, stand: 444
KARRIMOR SF	hall: 3, stand: 341
PROAMMO Central Europe	hall: 4, stand: 430

**1606 Caps**

4M SYSTEMS a.s.	hall: 3, stand: 325
ACLIMA AS	hall: 3, stand: 344
ASTONA - Lubomír Miček	hall: 4, stand: 466
BO GWANG TEXTILE CO., LTD.	hall: 4, stand: 463
HUDYsport a.s.	hall: 3, stand: 345
INTERCOLOR a. s.	hall: 3, stand: 323
KEELA/ILASCO	hall: 3, stand: 321

**1607 Cases**

ARGUN s.r.o.	hall: 3, stand: 354
CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
EXPLORER CASES by GT LINE	hall: 3, stand: 300
INTERCOLOR a. s.	hall: 3, stand: 323
PROAMMO Central Europe	hall: 4, stand: 430

**1609 Decontamination Kits**

EMERGENT BIOSOLUTIONS Inc.	Silver Partner of CBRN Conference
OUVRY SAS	hall: 3, stand: 332

**1610 Diving Equipment, Life Jackets**

KEELA/ILASCO	hall: 3, stand: 321
OLYMPIA TRIUMPH MANUFACTURING	hall: 3, stand: 333

**1611 Environmental Hazard Textiles**

CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
PROPEL LLC	hall: 4, stand: 446

**1612 Fabrics**

ACLIMA AS	hall: 3, stand: 344
BO GWANG TEXTILE CO., LTD.	hall: 4, stand: 463
CARRINGTON TEXTILES	hall: 3, stand: 306
CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
CONCORDIA TEXTILES N.V.	hall: 3, stand: 334
CORDURA Fabric - INVISTA Textiles UK Ltd	hall: 3, stand: 348
DALETEC	hall: 3, stand: 307
ESTAMBRIIL INTERNATIONAL	hall: 3, stand: 334
INTERCOLOR a. s.	hall: 3, stand: 323
MILLIKEN & COMPANY	hall: 4, stand: 445
NYKLÍČEK a spol. s.r.o.	hall: 3, stand: 323
PORELLE MEMBRANES	hall: 3, stand: 308
PROAMMO Central Europe	hall: 4, stand: 430
PROPEL LLC	hall: 4, stand: 446
SAPPHIRE FINISHING MILLS LIMITED	hall: 3, stand: 307
SILK & PROGRESS, spol. s r. o.	hall: 3, stand: 323
STAP a. s.	hall: 3, stand: 323
TENCATE PROTECTIVE FABRICS	hall: 4, stand: 461
W. L. GORE & ASSOCIATES GmbH	Silver Partner of FFISC Survivability Panel

**1614 Gas Masks**

3M Česko, s.r.o.	hall: 4, stand: 414
GLOMEX MS, s.r.o.	hall: 3, stand: 346
SCOTT SAFETY	hall: 4, stand: 414

**1615 Gloves**

ASTONA - Lubomír Miček	hall: 4, stand: 466
C.P.E. Production Oy	hall: 4, stand: 441
GRANQVISTS AB	hall: 3, stand: 343
HEXONIA GmbH	hall: 3, stand: 301
HUDYsport a.s.	hall: 3, stand: 345
INTERCOLOR a. s.	hall: 3, stand: 323
KEELA/ILASCO	hall: 3, stand: 321
OLYMPIA TRIUMPH MANUFACTURING	hall: 3, stand: 333
PORELLE MEMBRANES	hall: 3, stand: 308
PROAMMO Central Europe	hall: 4, stand: 430
WILEY X EMEA LLC	hall: 3, stand: 333

**1616 Helmets**

4M SYSTEMS a.s.....	hall: 3, stand: 325
ARGUN s.r.o.....	hall: 3, stand: 354
C.P.E. Production Oy.....	hall: 4, stand: 441
CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
CSC European Defense Business Management GmbH.....	hall: 4, stand: 431
GENTEX Corporation.....	hall: 3, stand: 346
GLOMEX MS, s.r.o.....	hall: 3, stand: 346
HEXONIA GmbH.....	hall: 3, stand: 301
JSC "KSF "Peredovaya tekstilshchitsa".....	hall: 4, stand: 444
OPS-CORE.....	hall: 3, stand: 346
PROAMMO Central Europe.....	hall: 4, stand: 430
REVISION.....	hall: 3, stand: 304
SCHUBERTH GmbH.....	hall: 3, stand: 333

## 1617 Home Textiles

INTERCOLOR a. s.....	hall: 3, stand: 323
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## 1618 Hospital Clothing for Technical Usage

BO GWANG TEXTILE CO., LTD.....	hall: 4, stand: 463
DALETEC.....	hall: 3, stand: 307
INTERCOLOR a. s.....	hall: 3, stand: 323
PORELLE MEMBRANES.....	hall: 3, stand: 308
PROAMMO Central Europe.....	hall: 4, stand: 430
SAPPHIRE FINISHING MILLS LIMITED.....	hall: 3, stand: 307

## 1619 Knives, Bayonets, Daggers

LV EQUIPMENT BV.....	hall: 4, stand: 422
MORIS DISTRIBUTION.....	hall: 4, stand: 436

## 1620 Leather Garments, Belts

BO GWANG TEXTILE CO., LTD.....	hall: 4, stand: 463
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## 1622 Non-Woven Fabrics and Products

BO GWANG TEXTILE CO., LTD.....	hall: 4, stand: 463
CARRINGTON TEXTILES.....	hall: 3, stand: 306
DSM DYNEEMA.....	hall: 4, stand: 433
INTERCOLOR a. s.....	hall: 3, stand: 323
KEELA/ILASCO.....	hall: 3, stand: 321
PROAMMO Central Europe.....	hall: 4, stand: 430
STAP a. s.....	hall: 3, stand: 323

## 1623 Other Textile Products

ASTONA - Lubomír Miček.....	hall: 4, stand: 466
BO GWANG TEXTILE CO., LTD.....	hall: 4, stand: 463
CARRINGTON TEXTILES.....	hall: 3, stand: 306
CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
DALETEC.....	hall: 3, stand: 307
EXXEL Outdoor.....	hall: 4, stand: 431
GENTEX Corporation.....	hall: 3, stand: 346
INTERCOLOR a. s.....	hall: 3, stand: 323
KARRIMOR SF.....	hall: 3, stand: 341
KEELA/ILASCO.....	hall: 3, stand: 321
PORELLE MEMBRANES.....	hall: 3, stand: 308
SAPPHIRE FINISHING MILLS LIMITED.....	hall: 3, stand: 307
SVITAP J.H.J. spol. s r. o.....	hall: 3, stand: 323

## 1624 Personnel Clothing

ACLIMA AS.....	hall: 3, stand: 344
ASTONA - Lubomír Miček.....	hall: 4, stand: 466
CARINTHIA / Goldeck Textil GmbH.....	hall: 3, stand: 305
CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
CONCORDIA TEXTILES N.V.....	hall: 3, stand: 334
DALETEC.....	hall: 3, stand: 307
ESTAMBRIL INTERNATIONAL.....	hall: 3, stand: 334
EXXEL Outdoor.....	hall: 4, stand: 431
GLOMEX MS, s.r.o.....	hall: 3, stand: 346
HEXONIA GmbH.....	hall: 3, stand: 301
HUDYsport a.s.....	hall: 3, stand: 345
INTERCOLOR a. s.....	hall: 3, stand: 323
KEELA/ILASCO.....	hall: 3, stand: 321
MAWASHI SCIENCE & TECHNOLOGY.....	hall: 4, stand: 437
MITTET SPESIALPRODUKTER AS.....	hall: 4, stand: 404
PORELLE MEMBRANES.....	hall: 3, stand: 308
PROPEL LLC.....	hall: 4, stand: 446
SAPPHIRE FINISHING MILLS LIMITED.....	hall: 3, stand: 307

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## 1626 Protection against Nuclear, Biological and Chemical Attack

3M Česko, s.r.o.....	hall: 4, stand: 414
EMERGENT BIOSOLUTIONS Inc.....	Silver Partner of CBRN Conference
INTERCOLOR a. s.....	hall: 3, stand: 323
OUVRY SAS.....	hall: 3, stand: 332
PROENGIN.....	hall: 4, stand: 416
PROPEL LLC.....	hall: 4, stand: 446
SCOTT SAFETY.....	hall: 4, stand: 414

## 1627 Rubber Rafts

INTERCOLOR a. s.....	hall: 3, stand: 323
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## 1628 Rucksacks

4M SYSTEMS a.s.....	hall: 3, stand: 325
CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
CSC European Defense Business Management GmbH.....	hall: 4, stand: 431
EXXEL Outdoor.....	hall: 4, stand: 431
GLOMEX MS, s.r.o.....	hall: 3, stand: 346
HEXONIA GmbH.....	hall: 3, stand: 301
HUDYsport a.s.....	hall: 3, stand: 345
INTERCOLOR a. s.....	hall: 3, stand: 323
JISR INSTITUTE, a.s.....	Gold Partner of FFISC Panel C4ISTAR
KARRIMOR SF.....	hall: 3, stand: 341
LV EQUIPMENT BV.....	hall: 4, stand: 422
MAWASHI SCIENCE & TECHNOLOGY.....	hall: 4, stand: 437
PROAMMO Central Europe.....	hall: 4, stand: 430
VAKUFORM spol.s r. o.....	hall: 3, stand: 323

## 1629 Combat Boots

BO GWANG TEXTILE CO., LTD.....	hall: 4, stand: 463
INTERCOLOR a. s.....	hall: 3, stand: 323
PORELLE MEMBRANES.....	hall: 3, stand: 308
W. L. GORE & ASSOCIATES GmbH.....	Silver Partner of FFISC Survivability Panel

## 1630 Sleeping Bags

CARINTHIA / Goldeck Textil GmbH.....	hall: 3, stand: 305
CONCORDIA TEXTILES N.V.....	hall: 3, stand: 334
CSC European Defense Business Management GmbH.....	hall: 4, stand: 431
ESTAMBRIL INTERNATIONAL.....	hall: 3, stand: 334
EXXEL Outdoor.....	hall: 4, stand: 431
KARRIMOR SF.....	hall: 3, stand: 341

## 1631 Socks

4M SYSTEMS a.s.....	hall: 3, stand: 325
ACLIMA AS.....	hall: 3, stand: 344
CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
PORELLE MEMBRANES.....	hall: 3, stand: 308

## 1632 Sportswear, Equipment for Spare Time

CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
HUDYsport a.s.....	hall: 3, stand: 345
INTERCOLOR a. s.....	hall: 3, stand: 323
PORELLE MEMBRANES.....	hall: 3, stand: 308
SVITAP J.H.J. spol. s r. o.....	hall: 3, stand: 323

## 1633 Survival Kits

GLOMEX MS, s.r.o.....	hall: 3, stand: 346
MORIS DISTRIBUTION.....	hall: 4, stand: 436

## 1634 Tents

CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
CONCORDIA TEXTILES N.V.....	hall: 3, stand: 334
CSC European Defense Business Management GmbH.....	hall: 4, stand: 431
ESTAMBRIL INTERNATIONAL.....	hall: 3, stand: 334
EXXEL Outdoor.....	hall: 4, stand: 431
SVITAP J.H.J. spol. s r. o.....	hall: 3, stand: 323

## 1635 Trench Coats

ASTONA - Lubomír Miček.....	hall: 4, stand: 466
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## 1636 Underwear

CLUTEX - Cluster Technical Textiles.....	hall: 3, stand: 323
CSC European Defense Business Management GmbH.....	hall: 4, stand: 431
HEXONIA GmbH.....	hall: 3, stand: 301
HUDYsport a.s.....	hall: 3, stand: 345

## 1637 Uniforms

4M SYSTEMS a.s.	hall: 3, stand: 325
ASTONA - Lubomír Miček	hall: 4, stand: 466
BO GWANG TEXTILE CO., LTD.	hall: 4, stand: 463
CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
CONCORDIA TEXTILES N.V.	hall: 3, stand: 334
CSC European Defense Business Management GmbH	hall: 4, stand: 431
DALETEC	hall: 3, stand: 307
ESTAMBRIIL INTERNATIONAL	hall: 3, stand: 334
HEXONIA GmbH	hall: 3, stand: 301
INTERCOLOR a. s.	hall: 3, stand: 323
KOUTNÝ spol. s r. o.	hall: 3, stand: 323
MAWASHI SCIENCE & TECHNOLOGY	hall: 4, stand: 437
MILLIKEN & COMPANY	hall: 4, stand: 445
PORELLE MEMBRANES	hall: 3, stand: 308
PROAMMO Central Europe	hall: 4, stand: 430
SAPPHIRE FINISHING MILLS LIMITED	hall: 3, stand: 307

**1638 Watches**

ICZ a.s.	hall: 3, stand: 350
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**1639 Water, Heat and Cold Resistant Military Clothing**

ASTONA - Lubomír Miček	hall: 4, stand: 466
CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
CONCORDIA TEXTILES N.V.	hall: 3, stand: 334
DALETEC	hall: 3, stand: 307
ESTAMBRIIL INTERNATIONAL	hall: 3, stand: 334
HEXONIA GmbH	hall: 3, stand: 301
PORELLE MEMBRANES	hall: 3, stand: 308
SAPPHIRE FINISHING MILLS LIMITED	hall: 3, stand: 307
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**1640 Work Security Clothing**

ASTONA - Lubomír Miček	hall: 4, stand: 466
BO GWANG TEXTILE CO., LTD.	hall: 4, stand: 463
CLUTEX - Cluster Technical Textiles	hall: 3, stand: 323
DALETEC	hall: 3, stand: 307
INTERCOLOR a. s.	hall: 3, stand: 323
PORELLE MEMBRANES	hall: 3, stand: 308
PROAMMO Central Europe	hall: 4, stand: 430
SAPPHIRE FINISHING MILLS LIMITED	hall: 3, stand: 307

**1641 Goggles**

3M Česko, s.r.o.	hall: 4, stand: 414
GLOMEX MS, s.r.o.	hall: 3, stand: 346
PROAMMO Central Europe	hall: 4, stand: 430
REVISION	hall: 3, stand: 304
SCOTT SAFETY	hall: 4, stand: 414
SENOP	hall: 3, stand: 346
WILEY X EMEA LLC	hall: 3, stand: 333

**1699 Other**

3M Česko, s.r.o.	hall: 4, stand: 414
4M SYSTEMS a.s.	hall: 3, stand: 325
BLACKBOX BIOMETRICS	hall: 4, stand: 462
MAWASHI SCIENCE & TECHNOLOGY	hall: 4, stand: 437
Microflown AVISA	hall: 3, stand: 335
OLYMPIA TRIUMPH MANUFACTURING	hall: 3, stand: 333
PROPEL LLC	hall: 4, stand: 446
SCOTT SAFETY	hall: 4, stand: 414

**1700 Military Optical Devices**
**1701 Binocular and Night Vision Equipment**

AIM INFRAROT-MODULE GmbH	hall: 4, stand: 408
GLOMEX MS, s.r.o.	hall: 3, stand: 346
LEUPOLD	hall: 4, stand: 427
NIDES s.r.o.	hall: 4, stand: 434
PRAMACOM-HT, spol.s r.o.	hall: 3, stand: 303
REBTECH	hall: 3, stand: 346
SAFRAN VECTRONIX AG	hall: 4, stand: 434
SENOP	hall: 3, stand: 346
ZAHORI TRADE s.r.o.	hall: 4, stand: 400

**1702 Field-glass**

LEUPOLD	hall: 4, stand: 427
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WILEY X EMEA LLC	hall: 3, stand: 333
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**1703 Periscopes**

SENOP	hall: 3, stand: 346
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**1704 Range Finders**

LEUPOLD	hall: 4, stand: 427
NIDES s.r.o.	hall: 4, stand: 434
PRAMACOM-HT, spol.s r.o.	hall: 3, stand: 303
SAFRAN VECTRONIX AG	hall: 4, stand: 434
SENOP	hall: 3, stand: 346

**1799 Other**

Microflown AVISA	hall: 3, stand: 335
MILITARY TECHNICAL INSTITUTE	hall: 3, stand: 349
NIDES s.r.o.	hall: 4, stand: 434
OPTOKON, a.s.	hall: 3, stand: 350
SAFRAN VECTRONIX AG	hall: 4, stand: 434
SENOP	hall: 3, stand: 346
ZAHORI TRADE s.r.o.	hall: 4, stand: 400

**1800 Consumption Goods**
**1801 Cleaning Utensils and Chemicals**

ENVI-PUR, s.r.o.	hall: 4, stand: 447
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**1802 Foodstuffs**

ENVI-PUR, s.r.o.	hall: 4, stand: 447
MORIS DISTRIBUTION	hall: 4, stand: 436

**1803 Nutriment**

ENVI-PUR, s.r.o.	hall: 4, stand: 447
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**1804 Packaging**

EXPLORER CASES by GT LINE	hall: 3, stand: 300
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**1899 Other**

ENVI-PUR, s.r.o.	hall: 4, stand: 447
REAL TARGET s.r.o.	hall: 4, stand: 413

**1900 Geospatial Intelligence, Cartography and Map Systems**
**1901 Geography**

AIRBORNE SYSTEMS North America	hall: 3, stand: 346
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**1903 Imagery and Gridded Data**

AIRBORNE SYSTEMS North America	hall: 3, stand: 346
AIRBORNE SYSTEMS North America	hall: 3, stand: 346
ICZ a.s.	hall: 3, stand: 350
MILITARY INTELLIGENCE	hall: 4, stand: 409

**1904 Meteorology**

GLOMEX MS, s.r.o.	hall: 3, stand: 346
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**1905 Hydro meteorology**

GLOMEX MS, s.r.o.	hall: 3, stand: 346
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**1906 Global Navigation Satellite System (GNSS)**

GPS Source Inc.	hall: 3, stand: 346
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**2000 Technologies**
**2001 Laser Technologies**

GLOMEX MS, s.r.o.	hall: 3, stand: 346
MODELÁRNA LIAZ spol. s r.o.	hall: 3, stand: 327

**2002 Nano Technologies**

ARC VEHICLES s.r.o.	hall: 4, stand: 411
NANOMEMBRANE s.r.o.	hall: 3, stand: 323
PARDAM, s.r.o.	hall: 3, stand: 323

**2099 Other**

AIM INFRAROT-MODULE GmbH	hall: 4, stand: 408
Centre for Knowledge and Technology Transfer of the Charles University / Centrum pro přenos poznatků a technologií Univerzity Karlovy	hall: 4, stand: 407
ENVI-PUR, s.r.o.	hall: 4, stand: 447
MAWASHI SCIENCE & TECHNOLOGY	hall: 4, stand: 437
MODELÁRNA LIAZ spol. s r.o.	hall: 3, stand: 327
NATO Energy Security Centre of Excellence	hall: 4, stand: 470
Office of the U.S. Deputy Assistant Secretary of Defense for Threat Reduction and Arms Control	hall: 4, stand: 417

## 2100 Camouflage Materials

### 2101 E-Camouflage

INTERCOLOR a. s. ....hall: 3, stand: 323  
PROAMMO Central Europe .....hall: 4, stand: 430

### 2102 Invisible Camouflage

CARINTHIA / Goldeck Textil GmbH .....hall: 3, stand: 305  
GLOMEX MS, s.r.o.....hall: 3, stand: 346  
INTERCOLOR a. s.....hall: 3, stand: 323  
PROAMMO Central Europe .....hall: 4, stand: 430  
STAP a. s.....hall: 3, stand: 323

### 2103 Smoke, Deceptive target

PROAMMO Central Europe .....hall: 4, stand: 430

### 2199 Other

PROAMMO Central Europe .....hall: 4, stand: 430  
SARENA INDUSTRIES & EMBROIDERY MILLS .....hall: 4, stand: 442

## 2200 Training and Simulation Systems

### 2201 Air Traffic Management

ICZ a.s.....hall: 3, stand: 350  
LOM PRAHA s.p.....hall: 3, stand: 339  
PENNANT International Group PLC .....hall: 3, stand: 346

### 2203 Cabin Systems

LOM PRAHA s.p.....hall: 3, stand: 339  
PENNANT International Group PLC .....hall: 3, stand: 346

### 2204 Simulators

DELINFO, spol. s r.o. ....hall: 3, stand: 350  
DYNAMIT NOBEL DEFENCE .....hall: 4, stand: 432  
GLOMEX MS, s.r.o.....hall: 3, stand: 346  
ICZ a.s.....hall: 3, stand: 350  
INTERLINK CS, spol. s.r.o.....hall: 3, stand: 310  
LIAZ a. s.....hall: 3, stand: 327  
LOM PRAHA s.p.....hall: 3, stand: 339  
PENNANT International Group PLC .....hall: 3, stand: 346  
RHEINMETALL Defence Electronics GmbH.....hall: 3, stand: 339  
VR Group, a.s.....hall: 3, stand: 339

### 2299 Other

LIAZ a. s.....hall: 3, stand: 327  
OUVRY SAS.....hall: 3, stand: 332  
PENNANT International Group PLC .....hall: 3, stand: 346  
REAL TARGET s.r.o.....hall: 4, stand: 413

## 2300 Target Acquisition and Tracking Systems

GLOMEX MS, s.r.o.....hall: 3, stand: 346  
ICZ a.s.....hall: 3, stand: 350  
LIAZ a. s.....hall: 3, stand: 327  
Microflown AVISA .....hall: 3, stand: 335  
NIDES s.r.o.....hall: 4, stand: 434  
PRAMACOM-HT, spol.s r.o. ....hall: 3, stand: 303  
SAFRAN VECTRONIX AG.....hall: 4, stand: 434  
SENOP.....hall: 3, stand: 346  
ZAHORI TRADE s.r.o.....hall: 4, stand: 400

## 2400 Power Packs

### 2499 Other

ENVI-PUR, s.r.o.....hall: 4, stand: 447  
NATO Energy Security Centre of Excellence.....hall: 4, stand: 470

## 2500 Police and Integrated Emergency Systems

### 2501 Alarm and Signalisation Systems

DALLMEIER ELECTRONIC GmbH & Co.KG.....hall: 3, stand: 347  
PRAMACOM-HT, spol.s r.o. ....hall: 3, stand: 303

### 2502 Anti-Terror Equipment

Czech Technical University in Prague  
/ České vysoké učení technické v Praze .....hall: 4, stand: 423  
GARANT PROTECTION .....hall: 4, stand: 438  
INTERLINK CS, spol. s.r.o.....hall: 3, stand: 310  
PROENGIN .....hall: 4, stand: 416  
THERMOTEXNIX Systems Ltd. ....hall: 4, stand: 400

### 2504 Disaster Equipment

JISR INSTITUTE, a.s..... Gold Partner of FFISC Panel C41STAR  
LIAZ a. s.....hall: 3, stand: 327

### 2506 Fire Fighting Equipment and Vehicles

ARC VEHICLES s.r.o.....hall: 4, stand: 411  
KIDDE-DEUGRA Brandschutzsysteme GmbH .....hall: 3, stand: 352  
PROENGIN .....hall: 4, stand: 416  
R&T ČR, s.r.o.....hall: 4, stand: 448

### 2507 Hand-held and Fixed Detectors

3M Česko, s.r.o.....hall: 4, stand: 414  
PROENGIN .....hall: 4, stand: 416  
SCOTT SAFETY.....hall: 4, stand: 414  
THERMOTEXNIX Systems Ltd. ....hall: 4, stand: 400  
VOP CZ, s.p.....hall: 3, stand: 326

### 2508 Personnel Protective Equipment (Shields, Truncheons, Helmets, etc.)

3M Česko, s.r.o.....hall: 4, stand: 414  
OUVRY SAS.....hall: 3, stand: 332  
SCOTT SAFETY.....hall: 4, stand: 414

### 2509 Rescue Systems

ENVI-PUR, s.r.o.....hall: 4, stand: 447  
JISR INSTITUTE, a.s..... Gold Partner of FFISC Panel C41STAR  
Medical Rescue Service of South Bohemia Region.....hall: 4, stand: 451 + VP

### 2510 Special Fireman Equipment

3M Česko, s.r.o.....hall: 4, stand: 414  
ARC VEHICLES s.r.o.....hall: 4, stand: 411  
LIAZ a. s.....hall: 3, stand: 327  
MORIS DISTRIBUTION.....hall: 4, stand: 436  
PROENGIN .....hall: 4, stand: 416  
SCOTT SAFETY.....hall: 4, stand: 414

### 2511 Special Weapons and Equipment

OLYMPIA TRIUMPH MANUFACTURING.....hall: 3, stand: 333

### 2512 X-ray Equipment

SHANGHAI EASTIMAGE EQUIPMENT Co., Ltd .....hall: 4, stand: 440

### 2599 Other

ARC VEHICLES s.r.o.....hall: 4, stand: 411  
ENVI-PUR, s.r.o.....hall: 4, stand: 447  
JUSTRA TREZORY s.r.o. ....hall: 4, stand: 410  
LIAZ a. s.....hall: 3, stand: 327  
MILITARY TECHNICAL INSTITUTE.....hall: 3, stand: 349  
Office of the U.S. Deputy Assistant Secretary of Defense for Threat Reduction and Arms Control .....hall: 4, stand: 417  
OLYMPIA TRIUMPH MANUFACTURING.....hall: 3, stand: 333

## 2600 Measurement and Research Equipment

### 2602 Criminology Laboratory

PROENGIN .....hall: 4, stand: 416

### 2603 Measurement Equipment, Optical Equipment, Test Equipment and Elements

Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406  
INTERLINK CS, spol. s.r.o.....hall: 3, stand: 310

### 2605 Liquid and Gas Flow, Liquid Level, Mechanical Movement

PROENGIN .....hall: 4, stand: 416

### 2606 Physic and Chemistry Laboratory Equipment and Supplies

3M Česko, s.r.o.....hall: 4, stand: 414  
HM El Zrt.....hall: 4, stand: 412  
Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406  
PROENGIN .....hall: 4, stand: 416  
SCOTT SAFETY.....hall: 4, stand: 414

### 2608 Quality Control, Classification and Calibration Laboratories

HUNGARIAN DEFENCE INDUSTRY .....hall: 4, stand: 412  
Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406

### 2699 Other

3M Česko, s.r.o.....hall: 4, stand: 414  
Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406  
LIAZ a. s.....hall: 3, stand: 327  
MILITARY TECHNICAL INSTITUTE.....hall: 3, stand: 349  
SCOTT SAFETY.....hall: 4, stand: 414



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**2700 Material Handling Equipment, Workshop Machineries, Tools and Equipment**

- 2701 Bolt Cutters and Levers**  
MORIS DISTRIBUTION.....hall: 4, stand: 436
- 2704 Tool Trolleys and Tool Boxes**  
ARC VEHICLES s.r.o.....hall: 4, stand: 411  
EXPLORER CASES by GT LINE .....hall: 3, stand: 300
- 2799 Other**  
ARC VEHICLES s.r.o.....hall: 4, stand: 411  
LIAZ a. s. ....hall: 3, stand: 327  
MODELÁRNA LIAZ spol. s r.o.....hall: 3, stand: 327

**2800 Environmental Protection**

- 2801 Advance Identification (warning)**  
HUNGARIAN DEFENCE INDUSTRY .....hall: 4, stand: 412  
INTERLINK CS, spol. s.r.o. ....hall: 3, stand: 310  
PROENGIN .....hall: 4, stand: 416
- 2802 Air, Water Quality**  
ENVI-PUR, s.r.o. ....hall: 4, stand: 447  
HUNGARIAN DEFENCE INDUSTRY .....hall: 4, stand: 412
- 2804 Hazardous Waste Protection**  
3M Česko, s.r.o.....hall: 4, stand: 414  
DEKONTA, a.s. ....hall: 4, stand: 415  
ENVI-PUR, s.r.o. ....hall: 4, stand: 447  
OUVRY SAS.....hall: 3, stand: 332  
PROENGIN .....hall: 4, stand: 416  
SCOTT SAFETY .....hall: 4, stand: 414

**2805 Oil, Water, Air and Land Pollution**

- Centre for Knowledge and Technology Transfer of the Charles University / Centrum pro přenos poznatků a technologií Univerzity Karlovy .....hall: 4, stand: 407  
DEKONTA, a.s. ....hall: 4, stand: 415  
ENVI-PUR, s.r.o. ....hall: 4, stand: 447  
LIAZ a. s. ....hall: 3, stand: 327

**2806 Radiation Protection**

- HUNGARIAN DEFENCE INDUSTRY .....hall: 4, stand: 412  
LIAZ a. s. ....hall: 3, stand: 327

**2807 Water Treatment, Waste Removal, Filtration, Waste Storage and Disposal**

- DEKONTA, a.s. ....hall: 4, stand: 415  
ENVI-PUR, s.r.o. ....hall: 4, stand: 447  
HUNGARIAN DEFENCE INDUSTRY .....hall: 4, stand: 412
- 2899 Other**  
ENVI-PUR, s.r.o. ....hall: 4, stand: 447

**2900 Procurement, National Acquisition System**

**3000 Asset Management**

- 3099 Other**  
VR Group, a.s.....hall: 3, stand: 339

**3100 Air-field Marking**

- 3M Česko, s.r.o.....hall: 4, stand: 414  
MILITARY TECHNICAL INSTITUTE .....hall: 3, stand: 349  
SCOTT SAFETY .....hall: 4, stand: 414

**3200 Office Supplies**

- 3206 Paper, Stationery**  
3M Česko, s.r.o.....hall: 4, stand: 414  
SCOTT SAFETY .....hall: 4, stand: 414
- 3299 Other**  
JUSTRA TREZORY s.r.o. ....hall: 4, stand: 410

**3300 Personal Management**

**3400 Services**

- 3401 Banking and Insurance Services**  
GARDANT GLOBAL .....hall: 4, stand: 401

### 3402 Catering Services

ENVI-PUR, s.r.o. ....hall: 4, stand: 447  
R&T ČR, s.r.o. ....hall: 4, stand: 448  
VIENNA HOUSE DIPLOMAT PRAGUE..... FFF Services Partner

### 3403 Consultancy Services

GARDANT GLOBAL .....hall: 4, stand: 401  
Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406  
MILITARY TECHNICAL INSTITUTE .....hall: 3, stand: 349  
NIDES s.r.o. ....hall: 4, stand: 434

### 3404 Tourism Services

VIENNA HOUSE DIPLOMAT PRAGUE..... FFF Services Partner

### 3499 Other

ENVI-PUR, s.r.o. ....hall: 4, stand: 447  
GARDANT GLOBAL .....hall: 4, stand: 401  
ICZ a.s. ....hall: 3, stand: 350  
Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406  
Medical Rescue Service of South Bohemia Region..... hall: 4, stand: 451 + VP  
MILITARY TECHNICAL INSTITUTE .....hall: 3, stand: 349

## 3500 Associations, Media, Government Authorities, Organisations

### 3501 Associations

AFCEA Czech Chapter .....hall: 4, stand: 480 - Cyber Pavilion  
ASOCIACE OBRANNÉHO A BEZPEČNOSTNÍHO PRŮMYSLU .....hall: 3, stand: 338  
DEFENCE AND SECURITY INDUSTRY ASSOCIATION .....hall: 3, stand: 338

### 3502 Media

AIRBORNE SYSTEMS North America.....hall: 3, stand: 346  
AVERIA LTD. – organizační složka..... hall: 4, stand: 480 - Cyber Pavilion  
European Security & Defence .....hall: 4, stand: 403  
MITTLER REPORT VERLAG GmbH .....hall: 4, stand: 403  
MS LINE, s.r.o. ....hall: 3, stand: 338  
WOJSKO I TECHNIKA MAGAZINE Zespół Badań i Analiz Militarnych.....Media Partner

### 3503 Government Authorities

HM EI Zrt .....hall: 4, stand: 412  
Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406  
ISRAELI Ministry of Defense - SIBAT .....hall: 4, stand: 464  
LOGISTICS AGENCY ..... LCC Specialized Partner  
MILITARY INTELLIGENCE .....hall: 4, stand: 409  
MILITARY TECHNICAL INSTITUTE .....hall: 3, stand: 349  
MINISTRY OF DEFENCE of the Czech Republic  
/ MINISTERSTVO OBRANY ČR .....hall: 3, stand: 399A + 399B + VP  
Ministry of the Interior / Ministerstvo vnitra .....hall: 4, stand: 480 - Cyber Pavilion  
National Cyber and Information Security Agency / Národní úřad  
pro kybernetickou a informační bezpečnost..... GEOMETOC Specialized Partner  
National Institute for Nuclear, Chemical and Biological Protection .....CEBIRAM  
Specialized Partner  
NETHERLANDS Ministry of Defence .....hall: 4, stand: 460  
Office of the U.S. Deputy Assistant Secretary of Defense  
for Threat Reduction and Arms Control.....hall: 4, stand: 417  
POLICE of the Czech Republic .....hall: 4, stand: 450A + 450B + VP  
PRISON SERVICE of the Czech Republic .....hall: 4, stand: 449 + VP

### 3504 Organisations

Multinational Logistics Coordination Centre..... LCC Specialized Partner  
NATO Centre of Excellence for Military Medicine .....hall: 4, stand: 470  
NATO Energy Security Centre of Excellence.....hall: 4, stand: 470  
NATO Explosive Ordnance Disposal Centre of Excellence .....hall: 4, stand: 470

NATO Modelling & Simulation Centre of Excellence.....hall: 4, stand: 470

### 3505 Universities

AIRBORNE SYSTEMS North America.....hall: 3, stand: 346  
Centre for Knowledge and Technology Transfer of the Charles University  
/ Centrum pro přenos poznatků a technologií Univerzity Karlovy ....hall: 4, stand: 407  
Czech Technical University in Prague  
/ České vysoké učení technické v Praze .....hall: 4, stand: 423  
Police Academy / Policejní akademie..... hall: 4, stand: 480 - Cyber Pavilion  
TOMAS BATA UNIVERSITY in Zlín  
- Faculty of Applied Informatics .....hall: 4, stand: 405  
TOMAS BATA UNIVERSITY in Zlín  
- Faculty of Logistics and Crisis Management .....hall: 4, stand: 405  
University of Defence / Univerzita obrany .....hall: 4, stand: 480 - Cyber Pavilion

### 3506 Research and Development

Czech Technical University in Prague  
/ České vysoké učení technické v Praze .....hall: 4, stand: 423  
Institute of Physics of Materials, Czech Academy of Sciences .....hall: 4, stand: 406  
MILITARY TECHNICAL INSTITUTE .....hall: 3, stand: 349  
National Institute for Nuclear, Chemical  
and Biological Protection.....CEBIRAM Specialized Partner  
Research Institute of Geodesy, Topography and Cartography / Výzkumný ústav  
geodetický, topografický a kartografický, v.v.i..... GEOMETOC Specialized Partner

### 3599 Other

MS LINE, s.r.o. ....hall: 3, stand: 338

## 3600 Cyber Security and Defence

ATLANTIS TELECOM spol. s r.o. ....hall: 4, stand: 480 - Cyber Pavilion  
CHECK POINT Software Technologies Ltd. ....hall: 4, stand: 480 - Cyber Pavilion  
CYBERGYM EUROPE, a.s.....hall: 4, stand: 480 - Cyber Pavilion  
Czech Technical University in Prague  
/ České vysoké učení technické v Praze .....hall: 4, stand: 423  
DELOITTE ADVISORY s.r.o..... hall: 4, stand: 480 - Cyber Pavilion  
Diebold Nixdorf.....hall: 3, stand: 336  
F5 Networks.....hall: 4, stand: 480 - Cyber Pavilion  
FIDELIS CYBERSECURITY.....hall: 4, stand: 480 - Cyber Pavilion  
FORCEPOINT .....hall: 4, stand: 480 - Cyber Pavilion  
ICZ a.s. ....hall: 3, stand: 350  
JISR INSTITUTE, a.s..... Gold Partner of FFISC Panel C41STAR  
MILITARY INTELLIGENCE .....hall: 4, stand: 409  
National Cyber and Information Security Agency / Národní úřad pro kybernetickou a  
informační bezpečnost..... GEOMETOC Specialized Partner  
NATO Energy Security Centre of Excellence.....hall: 4, stand: 470  
NET.POINTERS s.r.o. ....hall: 4, stand: 480 - Cyber Pavilion  
NOVICOM s.r.o. ....hall: 4, stand: 480 - Cyber Pavilion  
OPTOKON, a.s.....hall: 3, stand: 350  
Q CYBER TECHNOLOGIES .....hall: 4, stand: 439  
PALO ALTO NETWORKS .....hall: 4, stand: 480 - Cyber Pavilion  
ROHDE & SCHWARZ – Praha, Ltd. ....hall: 3, stand: 302  
TECH DATA AS Czech s.r.o.....hall: 4, stand: 480 - Cyber Pavilion

## 3700 Biometrics Technologies

Diebold Nixdorf.....hall: 3, stand: 336  
ICZ a.s. ....hall: 3, stand: 350  
JISR INSTITUTE, a.s..... Gold Partner of FFISC Panel C41STAR  
PHONEXIA .....hall: 4, stand: 480 - Cyber Pavilion  
SEFIRA spol. s r. o..... Biometrics Conference Partner with Speaker Slot  
TOVEK, spol. s r.o.....hall: 4, stand: 480 - Cyber Pavilion



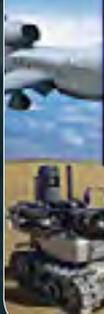
**WORLD  
CBRN & MEDICAL  
CONGRESS**

**17 - 19 OCTOBER 2018**  
PVA EXPO PRAGUE, CZECH REPUBLIC



**FUTURE FORCES  
INDIVIDUAL  
SYSTEMS CONGRESS**

**17 - 19 OCTOBER 2018**  
PVA EXPO PRAGUE  
CZECH REPUBLIC



**MULTI-DOMAIN  
ADVANCED ROBOTIC  
SYSTEMS CONFERENCE**

**17 - 18 OCTOBER 2018**  
PVA EXPO PRAGUE, CZECH REPUBLIC



**BIOMETRICCS  
CONFERENCE**

**17-19 OCTOBER 2018**  
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**OFFICIAL EXPERT  
WORKING GROUPS  
SESSIONS**

**15 - 19 OCTOBER 2018**  
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**MESAS 18**

MODELLING & SIMULATION FOR AUTONOMOUS SYSTEMS CONFERENCE

**17-19 OCTOBER 2018 PRAGUE**

Part of the **FUTURE FORCES FORUM**



**SOFT TARGET  
PROTECTION  
WORKSHOP**



 The meeting is supported by The NATO Science for Peace and Security Programme

**19 OCTOBER 2018**  
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**INTEGRATION  
OF THE EXOSKELETON  
IN THE BATTLEFIELD  
WORKSHOP**

**17 - 19 OCTOBER 2018**  
PVA EXPO PRAGUE, CZECH REPUBLIC



**GEOSPATIAL,  
HYDROMETEOROLOGICAL  
AND GNSS CONFERENCE**

**17 – 19 OCTOBER 2018**  
PVA EXPO PRAGUE, CZECH REPUBLIC



**LOGISTICS  
CAPABILITY  
CONFERENCE**

**17 – 18 OCTOBER 2018**  
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**FUTURE OF  
CYBER  
WORKSHOPS**

**17 – 19 OCTOBER 2018**  
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**FUTURE OF  
CYBER**

**LIVE HACKING ZONE**

4<sup>th</sup> edition of Future Cyber Security & Defence Conference

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**WAMS  
PRAHA.2018**

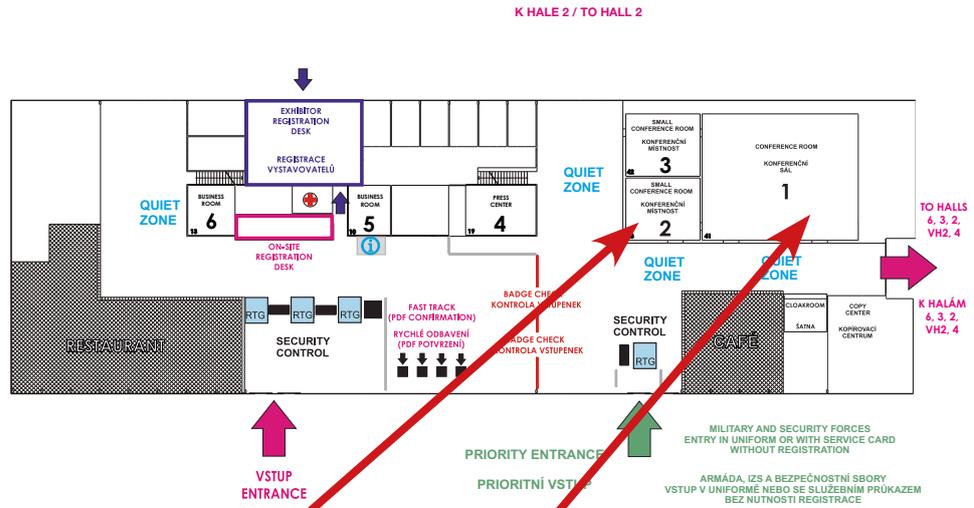
**17-19 OCTOBER 2018**  
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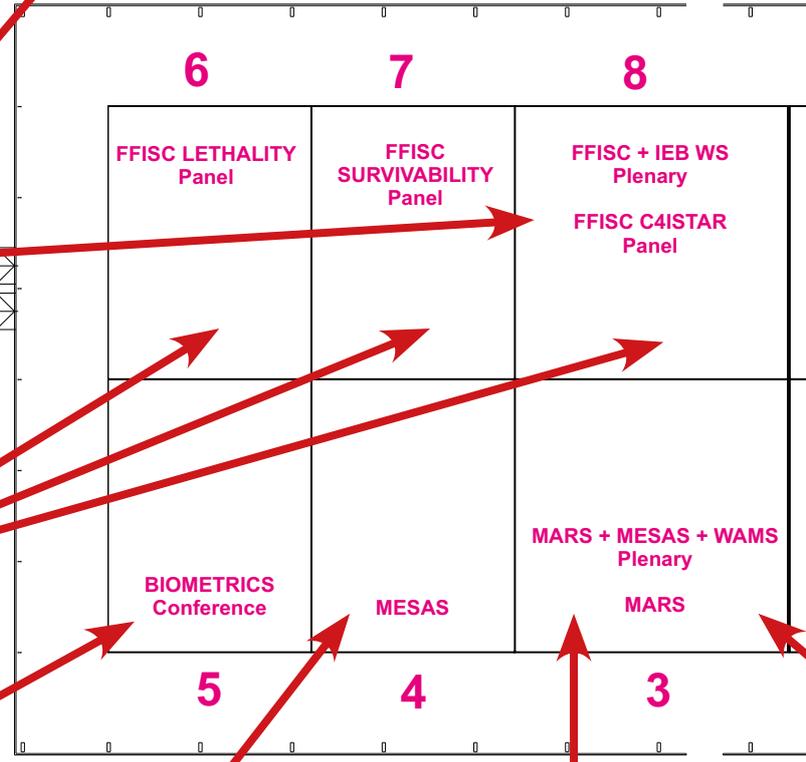
**FUTURE  
FORCES  
FORUM**

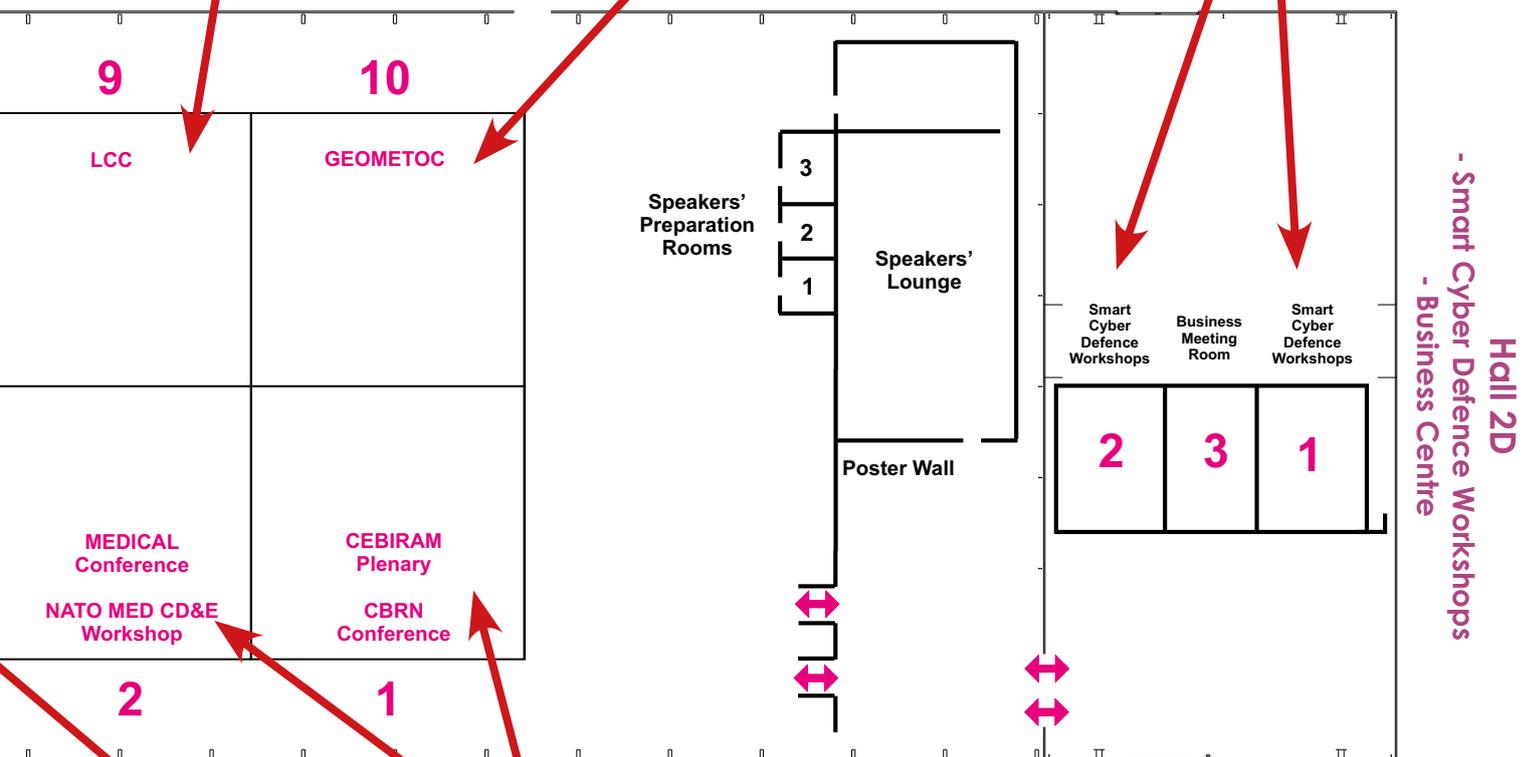
**Future Forces Expert Programme**

# HALL 2



## Hall 2 - Expert Events





TO HALLS VH2, H3, H4,  
OUTDOOR DYNAMIC AREA  
K HALÁM VH2, H3, H4,  
K VENKOVNÍM DYNAMICKÝM UKÁZKÁM



# JCBRN Defence COE

## Joint Chemical, Biological, Radiological and Nuclear Centre of Excellence

The JCBRN Defence COE is an international military organization with the Czech Republic as the Framework Nation, which offers recognized expertise and experience to the benefit of the Alliance and its partners, and supports NATO's CBRN Defence transformation process.

### 1. Key Areas of Interest



- CBRN Concept & Doctrine Development
- Support to NATO Defence Planning & Capability Development
- Experimentation Support
- Training, Exercises & Education
- CBRN Lessons Learned, Evaluation & Analysis
- CBRN Operations Support
- CBRN Modelling & Simulation Capabilities
- CBRN Knowledge Distribution to NATO Community
- Mutual Cooperation among all NATO Centres of Excellence
- Supporting the NATO Ballistic Missile Defence
- Supporting Partners in CBRN Defence on Request
- Cooperation with the European Union

### 2. Missions

- Provide advice in all CBRN Defence related areas
- Develop CBRN Defence doctrines, standards, knowledge to support improvement of interoperability and capabilities
- Provide opportunities to enhance education and training
- Contribute to the relevant lessons learned processes
- Within a Programme of Work approved by the Steering Committee, assist NATO, Participants and Partners in their CBRN Defence related efforts, including validation through experimentation

### 3. Products / Outcomes

- CBRN Courses
- CBRN Scenarios, MIL/MEL
- NATO Training and Exercise Panel Chairpersonship
- Nucleus of the NATO CBRN Reachback Element
- Information Knowledge Management
- NATO Doctrine & Terminology Panel Chairpersonship
- Experimentation reports



### 4. Courses 2019

ETOC code		Date
WMD-CD-21765	International Radiological Assistance Programme Training for Emergency Response – Basic	25 Feb - 1 Mar
WMD-MD-31246	CBRN Analysis Super User – Refresher	5 - 6 Mar
WMD-MD-21769	Introduction to the International CBRN Training Curriculum for Trainers of First Responders to CBRN Incidents	8 - 12 Apr
WMD-MD-41244	CBRN Units Evaluators	27 - 31 May
N/A	Joint Countering WMD Planning Course	10 - 14 Jun
WMD-CD-31883	Live Agent Training	30 Sep - 4 Oct
WMD-CD-41764	Consequence Management After CBRN Incident	18 - 22 Nov

## Word from the Chairman of CEBIRAM/CBRN Conference



Welcome to the CBRN Conference as a part of World CBRN & Medical Congress (CEBIRAM) which is designed to discuss wide range of aspects related to prevention from, protection against and response to CBRN threats. We would like to follow up on the successful CBRN Workshop in 2016 and continue to discuss in more details topics that were touched during the workshop.

As of today, the current security situation has significantly changed. We are facing the situation where wide range of events involving Weapons of Mass Destruction (WMD) in several countries in the Middle East and Africa; and chemical, biological, radiological, and nuclear (CBRN) materials are used worldwide against civil targets. Therefore, threats and risks emanating from WMD and CBRN materials should not be underestimated.

Effective responses to CBRN events require both offensive and defensive measures to prevent and, if prevention fails, to protect and mitigate effects caused by consequences of such an event. Thus,

the access to timely, accurate and relevant information is a critical component of any CBRN response, heavily supported by the diverse, multipurpose capabilities necessary to provide the operational flexibility for a wide range of future CBRN response efforts.

In addition, it is vital to make the most out of civil-military cooperation to effectively counter CBRN related risks and thus get prepared, equipped and trained to respond to a CBRN multi-hazard emergency situation.

Therefore, on behalf of the CBRN Conference Programme Committee, it is my pleasure to encourage CEBIRAM participants to attend the CBRN Conference which, I am sure, will be recognized as interesting and beneficial for all of you.

Looking forward to seeing you in Prague.

**COL Vratislav OSVALD**  
Director NATO JCBRN Defence COE  
CEBIRAM/CBRN Conference Chairman

## Word from the Chairman of CEBIRAM/MEDICAL Conference



Dear Ladies and Gentlemen,

On behalf of the Medical Conference Organizing Committee, it is my pleasure to invite you to the MEDICAL Conference as a part of World CBRN & Medical Congress (CEBIRAM), which is designed to discuss wide range of aspects related to providing medical support to our forces. We would like to follow up on the successful MEDICAL

Workshop organized in 2016 and continue to discuss further in details the topics that were touched during that workshop.

The Medical Conference is a unique opportunity to get acquainted with the latest trends. The Conference will focus on the innovative approach in the Medical Support during the War and Humanitarian Crises, Lessons Learned from Operations, Missions, Terrorist Attacks, Crisis Situations and Exercises. Force Health Support and Protection. Last but not least, the topics also will be Medical Concept Development, Experimentation, Innovation and Technology Implementation.

The program will serve as a tool for addressing challenges in providing medical support and presenting new innovative trends. The exchange of information among experts will contribute to efficient implementation of new knowledge in the Field Medical.

We have been living in changing strategic environment. It is crucial to get Military Medical Services trained, equipped and prepared to provide medical support to our forces in crisis situations at the level that will guarantee the capability to save lives of wounded and protect the health.

Therefore, it is my pleasure to encourage CEBIRAM participants to attend the MEDICAL Conference that, I believe, will be both interesting and beneficial for all of you.

Looking forward to seeing you in Prague.

**COL (GS) Petr KRAL, M.D.**  
Director of Military Medical Department, Support Division, Ministry of Defence, CZE  
CEBIRAM/MEDICAL Conference Chairman

## Word from the Chairman of CEBIRAM/Medical CD&E Workshop



Dear Ladies and Gentlemen,

Welcome to the top event of the year in the area of medical civil-military cooperation, named World CBRN & Medical Congress (CEBIRAM) and particularly to the Medical Concept Development and Experimentation Workshop (Med CD&E WS) that creates an integral part of the Medical Conference within CEBIRAM.

For many years, medical services of NATO and its Partner Nations have been closely working together, in order to provide our troops with the best possible medical care at home and abroad. Deepening this successful cooperation the CZE Surgeon General and the Director of the NATO Centre of Excellence for Military Medicine (MILMED COE) volunteered to co-organize this event.

On the other hand, NATO has been affected by long standing shortfalls in deployable medical capability and the overarching plan to address them has been endorsed by both the Military Committee and the Chiefs of the Military Medical Services in NATO (COMEDS). The plan specifies a number of complementary approaches needed to resolve or mitigate medical shortfalls and the requirement for alignment of effort within NATO. To achieve this, shared development of new concepts is required, as a starting point for national engagement and commitment. The multinational delivery of military healthcare requires such concept development including experimentation, based on common NATO CD&E principals.

It is a great pleasure to share experiences and Lessons Identified/Learned from Med CD&E Activities, that were conducted during Vigorous Warrior 2017 (VW 17) LIVEX which is the main multinational military medical exercise organized biannually by MILMED COE. VW 17 provided an excellent opportunity to engage significant number of military medical elements in an effort to develop and enhance NATO's capabilities, as well as to ensure that new NATO medical concepts are being exercised/tested across the full capability requirement spectrum. During the exercise, in close cooperation with ACT and Nations, three MED Experiment Activities were conducted on the following themes:

- Interoperability/Modularity
- Civil-Military Cooperation
- Bio Responsiveness

I would like to encourage you to actively participate in the MED CD&E WS, as well as the whole Medical Conference program, which I strongly believe will provide a great opportunity for mutual information exchange of the latest experiences, as well as potential solution of future challenges, that might be foreseen within NATO MED Arena. Please, take this WS as an opportunity for preparation of the MED subject matters experts, who might be potential participants in CD&E Activities during VW 19.

Finally, I would like to express my special thanks to the FUTURE FORCES FORUM for hosting our event and for all their efforts to make this event successful.

### **COL (MD) Dr. László FAZEKAS**

Director MILMED COE  
CEBIRAM/Medical CD&E Workshop Chairman

## Word from the Director of EOD COE



Dear Ladies and Gentlemen,  
dear Colleagues,

As the director of the NATO EOD Centre of Excellence, I am pleased to invite you to the 3rd Integration of the Exoskeleton in the Battlefield Workshop (IEB WS).

The NATO Integration of the Exoskeleton in the Battlefield project is held within the Future Forces

Forum programme and is sponsored through Defense against Terrorism Programme of Work (DAT POW) and in cooperation with NATO

Communications and Information Agency (NCIA).

The main objective of this project is to help NATO and Nations to understand the technological readiness of Exoskeleton for Human Performance Augmentation (EHPA) capabilities, support the formulation of minimum military requirements in this area, and refine operational concepts.

I look forward to meeting you at the workshop and I am convinced that this event will push one-step further the successful adaptation of the exoskeleton in the military community of interest.

### **Colonel Robert CSASZAR, SVK A**

Director NATO EOD COE

## Word from the Director of Multinational Logistics Coordination Centre



Dear Sirs, Ladies, Gentlemen,

Let me provide you initial information concerning Logistics Capability Conference (LCC), which is one of the significant activities of the Multinational Logistics Coordination Centre (MLCC) in the Year 2018.

LCC is projected to bring together international logistic community

to discuss modern military capabilities that Alliance will require in the future. As logistics is an integral part of NATO strategic concept range of topics is also built to address issues related to the current defence and security situation from logistics perspective.

LCC is a great platform to show current and future military technologies in logistic area. It is designed not only for servicemen, but also for civilian professionals dealing with defence and security matters, particularly representatives of industry, science, research and education.

Our intention is to highlight the need for interoperability, the need for deeper cooperation with science and research to eliminate current and future threats. Topics and speaker's composition corresponds to the representation of all stakeholders in defence and security elements, including national and international organizations.

LCC is founded on our experience from conducting multinational logistic exercises focusing on standardization and interoperability. It is an honour to me to be a chairman of Logistics Capability Conference. I am confident we will deliver meaningful outcomes and our effort will encourage international community to support multinational solutions in logistics.

In conclusion, to emphasize the importance of LCC, allow me to quote ancient Chinese general, military strategist, writer, and philosopher Sun Tzu "**The line between disorder and order lies in logistics...**"

### **Col Jan Husák**

Director of Multinational Logistics Coordination Centre  
Logistics Capability Conference Chairman

## Word from the Chairman of Multi-domain Advanced Robotic Systems



Ladies and Gentlemen,

Rapid technological developments in Artificial Intelligence, Robotics and Advanced Weapons Systems brings new approaches, opportunities and threats in wide range of operational and industrial applications, and is leading to significant changes in the way we perceive both our social environment and human performance in the con-

temporary world and in the future. It is now more clear that the role of humans in the future will dramatically change, and our high expectations are somewhat mixed with concerns about the increasing pace of the ongoing technological revolution. Many of these concerns are driven by advances in AI, a field which some technologists fear could get out of our control.

In scientific communities there continues to be an intensive discussion about the potential future of humankind, the major risks and possible outcomes. In any case, year by year we are surprised by the

faster and faster progress in advanced Research and Development areas, and we can feel the "technological vibrations." Are these indicators that we are witnesses of something unique? Something mentioned in SCI-FI publications from several decades before? It is therefore necessary to devote attention to this phenomenon, and the MARS Conference creates an ideal communication platform in this field.

As in the events of 2014 and 2016, in 2018 we look forward to the participation of leading experts from around the world, including Prof. Ronald Arkin, USA; Dr. Thomas Killion, NATO; Prof. Michal Pechoucek, CZE; Prof. Agostino Bruzzone, ITA; Mr. Kevin Mills, USA; GEN Petr Pavel, CZE; Dr. Thomas Irwin, USA; CAPT Vincenzo Milano, ITA-Navy and others. We look forward to a broad interdisciplinary discussion about not only the technological, but also the ethical, legal, psychological, economic and other aspects of the use of autonomous/robotic systems in a future, multi-domain environment.

### **LTC Jan Mazal**

Chairman MARS

## Word from the Chairman of World CBRN & Medical Congress



Dear Ladies and Gentlemen,

Welcome to the World CBRN & Medical Congress as a part of Future Forces Forum 2018. This unique combination of two separate but logically connected events under the umbrella of one activity I suppose bring a very similar outcomes - necessity of the civil-military cooperation to have the common and effective approach.

Based upon our experiences and positive feedback from 2016 we adopted a schedule of this Congress and we will have a common panel discussion with the Medical, CBRN and other experts during the first part of congress. Later we will hold two separate conferences with some similar topics, but from the other hand we try to allow to attend the experts both of conferences.

The world around us is dramatically changing, unpredictable events can occur in our daily life. Time to distinguish between the military

or civilian environment is gone. So there is one solution - cooperate, coordinate our activities to deal with non-typical events in comparison with our experiences as mass migration, hybrid warfare, infectious diseases outbreaks etc. Proactive countermeasures are requested more than defensive approach. Moreover, the changes of the environment are demanding more sophisticated approach using innovation trends in medicine connected with new techniques, materials or specific devices.

I am personally delighted to welcome at this event a very strongly cooperating MiMED CoE from Budapest, Hungary, which will run a Medical Concept Development, Experimentation, Innovation and Technology Implementation workshop. This event I hope can bridge over two pillars of the Medical Conference - the presented topics and exhibition of the medical companies as a result of innovative trends.

I wish all of you a nice stay in our beautiful capitol, fruitful Congress and Conferences and I am looking forward to meet you all.

**BG Zoltan Bubenik**

Chairman World CBRN & Medical Congress

## Word from the Chairman of GEOSPATIAL, HYDROMETEOROLOGICAL and GNSS Conference



Ladies and gentlemen,

welcome this year to the GEOMETOC and GNSS Conference following successfully performed GEOMETOC Workshop during Future Forces Forum Exposition 2016.

The schema of the GEOMETOC and GNSS conference 2018 is partially different to the 2016 event and also a message and focus of all speakers is directed to Environ-

mental and Technological risks, minimization of disaster impacts and to the Crisis prevention and preparedness.

The interest for GEOMETOC and GNSS Conference development demonstrated during the GEOMETOC WS 2016 was the engine to continue in our work and provide any potential visitor with a follow-up event. I personally believe the GEOMETOC and GNSS Conference 2018 will be a successful imaginary chapter in the FFF Exposition 2018 book.

This year the GEOMETOC Conference will consist of a plenary part on 17th OCT with pertaining strategic information, followed on 18th OCT with more detailed presentations in the area of Geography, Meteorology. The Conference will be concluded on 19th OCT with papers specialized to GNSS topics.

The entire program and nomination of speakers in all above mentioned branches is not limited to the defense and security impacts only. The intention was to stress the importance of other areas (i.e. financial, traveling sectors) as well. Therefore, GEOMETOC and GNSS conference offers to all a chance to share and find solution by increasing cooperation amongst all parties.

I am honored to chair the GEOMETOC and GNSS Conference 2018 and let me express here my sincere thanks to all who participated at the preparation of the Conference. They performed a tremendous job indeed.

I maintain the opinion all speakers and presentations at the conference will address you and leave a deep experience with their great contemporary and future knowledge and technologies in respective branches. Moreover, I afford to assert, that the Conference is a unique opportunity to find key partners and solutions for your business demanding support from GEOMETOC area.

As traditionally, let me close my opening words with quotation of Sun Tzu (\*544 BC, 0496 BC)

“If I know the Air and the Ground as well, my Victory will be total.”

**COL Jan Círek Dipl. Eng.**

Chairman of GEOSPATIAL, HYDROMETEOROLOGICAL and GNSS Conference



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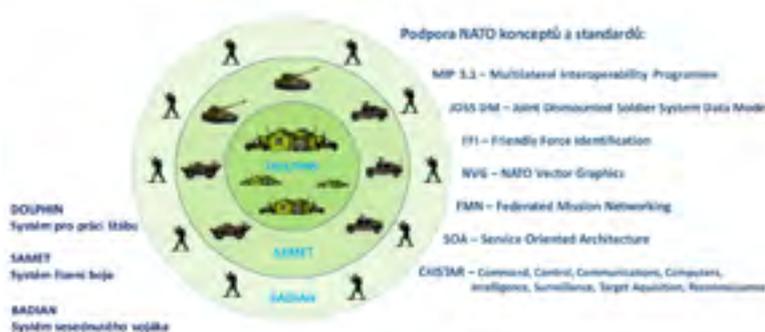
# C4ISTAR

je především schopnost ...

Společnost **DELINFO, spol. s r.o.**, člen Skupiny ICZ, je hlavním dodavatelem systému velení a řízení pro potřeby pozemních sil Armády České republiky. Dnes nikdo nepochybuje o tom, že k efektivnímu fungování systému velení a řízení je nezbytný bezproblémový přenos informací jak mezi jednotlivými podsystémy (Velitelské stanoviště - Vozidlo – Sesednutý voják), tak ale i přímo, např. od vojáka-specialisty na štáb jednotky apod. Samozřejmostí rovněž musí být interoperabilita jednotlivých podsystémů s obdobnými systémy používanými státy NATO. Úspěšnost implementace těchto standardů je v rámci nasazení Informačního systému velení a řízení pozemních sil prověřována na zahraničních cvičeních AČR, kde naši vojáci dosahují zpravidla výborných výsledků.

Na Mezinárodním veletrhu obranné a bezpečnostní techniky IDEB 2018 v Bratislavě představěla společnost DELINFO společně s MSM Martin s.r.o. a OPTOKON a.s. integraci systému velení a řízení ICZ DELINFOS® do konkrétních zařízení, počínaje terminálem sesednutého vojáka, přes srdce vozidla tvořeného LMCP28 ve vystavovaném vozidle PATRIOT až po 3D stůl velitele jednotky. Tento ucelený systém zaujal vystavovatele svým komplexním řešením, a i proto byl oceněn GRAND PRIX IDEB 2018.

Součástí Future Forces Exhibition 2018 je panel C4ISTAR, na kterém se mohou zájemci seznámit s praktickou ukázkou komplexního řešení C4ISTAR. Toto řešení bude také prezentováno na stánku společnosti DELINFO.



Jeden systém, jednotné řešení.



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Director, Military Medical Agency, CZE  
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Chief of Chemical Corps of the Army,  
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Councillor for Safety, Prague City Hall,  
CZE  
*Honorary Chairmen*

## Programme



**WEDNESDAY, 17 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2**

CEBIRAM

**10:00 - 13:15** Registration

**12:45 - 13:15** Poster Sessions

**13:30 - 14:00 CONGRESS OPENING**

**INTRODUCTORY REMARKS:**



**Mrs. Michala HERGETOVÁ**  
CEBIRAM Moderator, CZE



**KEYNOTE SPEECH:**



**H.E. Adam VOJTĚCH**  
Minister of Health, CZE



**Mrs. Dana DRÁBOVÁ**  
Chair of the Office, State Office for Nuclear Safety, CZE



**BG Zoltán BUBENÍK**  
Chairman CEBIRAM Congress; Surgeon General, Director of Military Medical Agency of Armed Forces of the Czech Republic, CZE



**14:00 - 16:00 DISCUSSION FORUM/PLENARY – Topic at Strategic Level:  
CIVIL–MILITARY COOPERATION AND CRISIS PREPAREDNESS**

**MODERATOR:**



**Mrs. Michala HERGETOVÁ**  
CEBIRAM Moderator, CZE



**PANELISTS: (in alphabetical order)**



**Mr. William ALBERQUE**  
Director of the NATO WMD Arms Control, Disarmament, and Non-Proliferation Centre (ACDC), NATO



**BG Zoltán BUBENÍK**  
Chairman CEBIRAM Congress; Surgeon General, Director of Military Medical Agency of Armed Forces of the Czech Republic, CZE



**Mrs. Dana DRÁBOVÁ**  
Chair of the Office, State Office for Nuclear Safety, CZE



**COL László FAZEKAS**  
Chairman NATO MED CD&E Workshop, Director, NATO MILMED COE, NATO



**BG Stefan KOWITZ**  
Medical Advisor of NATO's Allied Command Operations, SHAPE, NATO



**LTC Ladislava NAVRÁTILOVÁ**  
General Directorate of Fire Rescue Service, CZE



**Prof. Simo NIKKARI**  
Director of the Centre for Biothreat Preparedness, Director of the Research and Development Department and Head of the CB-Defence and Environmental Health Centre (2006) of the Centre for Military Medicine in Finland, FIN



**COL Vratislav OSVALD**  
Director, NATO JCBRND COE, NATO





**Prof. Anthony T. TU**

Department of Biochemistry and Molecular Biology, Colorado State University, USA



**Mr. Ludy SURYANTORO**

Team Leader - Strategic Partnership for International Health Regulations (IHR 2005) and Health Security (SPH), Country Health Emergency and IHR Department (CPI) of World Health Emergency Programme (WHE), WHO, CHE



**H.E. Adam VOJTĚCH**

Minister of Health, CZE



**THURSDAY, 18 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2**

08:30 - 09:15 **Registration**

09:00 - 09:15 **Poster Sessions**

**09:30 - 12:00 CBRN CONFERENCE – Current Security Challenges in CBRN**

09:30 - 09:40 **INTRODUCTORY REMARKS:**



**COL Vratislav OSVALD**

Chairman CBRN Conference; Director JCBRN Defence COE, NATO



**COL David MARTÍNEK**

Vice-Chairman CBRN Conference, JCBRN Defence COE, NATO



**MAJ Veronika DOČKALOVÁ**

CBRN Conference Secretary, JCBRN Defence COE, NATO



09:40 - 10:00 **A Methodology to Build “National Resilience Strategy”**



**BG (Ret.) Abraham BACHAR**

Israeli Homeland Security Team, ISR



10:00 - 10:20 **Don't Blow It! Safely Eliminating Chemical and Biological Munitions on the Battlefield**



**COL (Ret.) Kris N. PERKINS**

Director, Chemical and Biological Weapons Elimination (CBWE) Office of Assistant Secretary of Defense, NCB/TRAC , USA



10:20 - 10:40 **Breaking the Barriers – Finnish Approach to CBRNE Preparedness**



**Ms. Tiina RAIJAS**

Ministerial Advisor at Ministry of Defence, FIN



10:40 - 11:00 **Coffee Break & Networking**

11:00 - 11:20 **National Institute for NBC Protection – Compact R&D Facility for CBRN Testing, Education and Training**



**Mr. Josef BŘÍNEK**

Deputy Director of National Institute for NBC Protection, CZE



11:20 - 11:40 **CBRN Innovation Lab: A Platform for Improving Risk Knowledge and Warning of CBRN Hazards in Abu Dhabi**



**MAJ Abdullah Ali Ahmed Alsaghery ALHMOUDI**

Officer in Abu Dhabi Police Force , UAE



11:40 - 12:00 **Current Security Challenges in CBRN - Discussion**

12:00 - 13:00 **Lunch Break & Networking**

12:30 - 12:45 **Poster Session**

09:30 - 12:00 MEDICAL CONFERENCE	
<b>INTRODUCTORY REMARKS:</b>	
09:30 - 9:50	 <b>COL (GS) Petr KRÁL</b> Chairman MEDICAL Conference; Director, Military Medical Department – Division of Support, Ministry of Defence, CZE 
09:50 - 10:10	 <b>COL Peter MÁJOVSKÝ</b> Co-Chairman MEDICAL Conference; former Interoperability Branch Chief, NATO MILMED COE, NATO 
10:10 - 10:30	<b>New challenges for NATO demand the civilian military medical interface</b>
	 <b>BG Stefan KOWITZ</b> Medical Advisor of NATO's Allied Command Operations, SHAPE, NATO 
10:30 - 10:50	<b>Preventing Death on the Battlefield - Special Operations Medical Capability Development</b>
	 <b>COL Michael COHEN</b> NATO Special Operations Headquarters, Medical Advisor/Command Surgeon, NATO 
10:50 - 11:10	<b>Coffee Break &amp; Networking</b>
11:10 - 11:30	<b>Critical Stress Respond Management at Frankfurt Airport (CISM Fraport AG)</b>
	 <b>Mr. Walter GABER</b> Vice President and Medical Director Frankfurt Airport, DEU 
11:30 - 11:50	<b>New developments for diagnosis and treatment of nerve agent poisoning</b>
	 <b>COL Horst THIERMANN</b> Chief of Bundeswehr Institute of Pharmacology and Toxicology, DEU 
11:50 - 12:10	<b>GOLD Partner Presentation – Military Technical Institute Field Hospitals and Mobile Medical Units</b> 
	 <b>Mr. Milan BEZDĚK</b> Military Technical Institute, CZE 
12:10 - 13:10	<b>Lunch Break &amp; Networking</b>
12:30 - 12:45	<b>Poster Sessions</b>
13:00 - 16:00 CBRN CONFERENCE – National and International Perspectives towards CBRN Defence	
13:00 - 13:20	<b>Addressing the Threat of Chemical Weapons Use</b>
	 <b>Ms. Veronika STROMŠÍKOVÁ</b> Organisation for the Prohibition of Chemical Weapons, OPCW 
13:20 - 13:40	<b>WMD Disablement</b>
	 <b>LTC Mario GÖBEL</b> Branch Head International Cooperation & Standardization, Bundeswehr CBRN Defence Command, DEU 
13:40 - 14:00	<b>Biological Threat Reduction by Supporting Global Health Security</b>
	 <b>Prof. Simo NIKKARI</b> Director of the Centre for Biothreat Preparedness, Director of the Research and Development Department of the Centre for Military Medicine in Finland, FIN 
14:00 - 14:20	<b>Coffee Break &amp; Networking</b>
14:20 - 14:40	<b>How to deal with Biological and Chemical Terrorism</b>
	 <b>Prof. Anthony T. TU</b> Professor Emeritus, Department of Biochemistry & Molecular Biology, Colorado State University, USA 

14:40 - 15:00	<b>State of art of CBRN forensics in Police of the Czech Republic and Europe</b>		
		<b>COL Pavel KOLÁŘ</b> Deputy Director, Institute of Criminalistics, CZE	
15:00 - 15:30	<b>Perspectives and trends in individual protection</b>		
		<b>LTC Pavel OTRÍŠAL</b> Chief of CBRN Corps Section, NBC Defence Institute, University of Defence, CZE	
15:30 - 16:00	<b>National and International Perspectives towards CBRN Defence - Discussion</b>		
<b>13:00 - 16:00</b>	<b>MEDICAL CONFERENCE – NATO MED Concept Development &amp; Experimentation (CD&amp;E) Workshop</b>		
<b>WORKSHOP IS LED BY:</b>			
13:00 - 13:10		<b>COL Peter MÁJOVSKÝ</b> former Interoperability Branch Chief, NATO MILMED COE, NATO	
13:10 - 13:20		<b>COL Jozef KUČA</b> NATO MILMED COE, NATO	
<b>CD&amp;E WS PLENARY SESSION:</b>			
13:20 - 13:40	<b>NATO CD&amp;E Process</b>		
		<b>MAJ Olga POPRADI - FAZEKAS</b> NATO MILMED COE, NATO	
13:40 - 14:00	<b>NATO MED CD&amp;E Themes and Activities - Modularity/Interoperability</b>		
		<b>COL Jozef KUČA</b> NATO MILMED COE, NATO	
14:00 - 14:20	<b>NATO MED CD&amp;E Themes and Activities - Civ-Mil Cooperation</b>		
		<b>LTC Stefano DE PORZI</b> NATO MILMED COE, NATO	
14:20 - 14:40	<b>NATO MED CD&amp;E Themes and Activities - Bio Responsiveness</b>		
		<b>LTC Michael McCOWN</b> NATO MILMED COE, NATO	
14:40 - 15:00	<b>Industry Presentation – BlackBox Biometrics</b>		
		<b>CPT Scott FEATHERMAN</b> Director, Business Development at BlackBox Biometrics, Inc. (B3), USA	
<b>15:00 - 15:15</b>	<b>Leg Stretch</b>		
<b>SYNDICATES:</b>			
15:15 - 16:00	<b>MED CD&amp;E Experience/Lessons Learned from TTX (Medical Modular Approach)</b>		
		<b>Mr. Daniel PETRILAK</b> Project Officer Medical, EDA	
		<b>COL Peter MÁJOVSKÝ</b> former Interoperability Branch Chief, NATO MILMED COE, NATO	
15:15 - 16:00	<b>MED CD&amp;E Experience/Lessons Learned from LIVEX VW 17</b>		
		<b>COL Jozef KUČA</b> NATO MILMED COE, NATO	
		<b>MAJ Olga POPRADI - FAZEKAS</b> NATO MILMED COE, NATO	
<b>16:15 - 17:00</b>	<b>SOCIAL EVENT FOR SPEAKERS, Leonardo Helicopters VIP Lounge, Hall 4</b>		

 **FRIDAY, 19 OCTOBER 2018**

 **PVA EXPO PRAHA, HALL 2**

08:30 - 09:15 Registration

09:00 - 09:15 Poster Sessions

**09:30 - 12:00 CBRN CONFERENCE - Research and Innovations Aspects in CBRN**

09:30 - 09:50 **INTRODUCTORY REMARKS:**



**COL Vratislav OSVALD**

Chairman CBRN Conference; Director JCBRN Defence COE, NATO



**COL David MARTÍNEK**

Vice-Chairman CBRN Conference, JCBRN Defence COE, NATO



**MAJ Veronika DOČKALOVÁ**

CBRN Conference Secretary, JCBRN Defence COE, NATO



09:50 - 10:10 **Forensics components in investigation of alleged use of CBRN**



**Mr. Pavel ČASTULÍK**

Team Leader of the On-Site Technical Assistance for EU CBRN CoE Risk Mitigation Initiative program for non-European countries in the East and Central Africa, African Atlantic Façade and South East and Easter Europe, EU



10:10 - 10:30 **Updates on products for CBRN emergency decontamination of victims**



**COL Denis JOSSÉ**

Alpes-maritimes (FR) Fire & Rescue Services, Adviser on CBRN Risks Management, FRA



10:30 - 10:50 **SILVER Partner Presentation – Emergent Countermeasures International  
In Vitro Evaluation of RSDL® Product for Efficacy to Select Dermal Toxic Chemical Compounds**



**Mrs. Laura COCHRANE**

Director of Medical and Clinical Affairs, Emergent Countermeasures International, UK



10:50 - 11:10 **Gaseous decontamination of real threats**



**Mr. Marek KUZMA**

Head of the Scientific Team for the Development of Decontamination Methods, Institute of Microbiology, Academy of Sciences, CZE



11:10 - 11:30 **Quantification exposure and assessment of health hazards following a radiological attack**



**Mr. Jozef SABOL**

Department of Crisis Management, Police Academy of the Czech Republic, CZE



11:30 - 12:00 **CBRN Conference Summary and Chairman's Closing Remarks**

12:00 - 13:00 Lunch Break & Networking

**09:30 - 12:00 MEDICAL CONFERENCE**

09:30 - 09:40 **INTRODUCTORY REMARKS:**



**COL (GS) Petr KRÁL**

Chairman MEDICAL Conference; Director, Military Medical Department – Division of Support, Ministry of Defence, CZE



**COL Peter MÁJOVSKÝ**

Co-Chairman MEDICAL Conference; former Interoperability Branch Chief, NATO MILMED COE, NATO



09:40 - 10:00 **Medical contribution to CBRN Defence – concepts and lesson learned**

		<b>Mr. Steven A. Bland</b> Surgeon Commander Royal Navy, Defence Specialist Advisor in CBRN Medicine, Royal Navy, GBR	
10:00 - 10:20	<b>Robotic Surgery in Military Medicine Past and Future</b>		
		<b>1LT Václav KREJČÍ</b> Central Military Hospital Prague, CZE	
10:20 - 10:40	<b>Australian CBR Medical Countermeasure research</b>		
		<b>GPCAPT Glen STORRAR</b> Wing Commander, Australian Defence Force, AUS	
10:40 - 11:00	<b>NSPA - Cooperation with Industry</b>		
		<b>Mr. Phil CHOPPEN</b> Medical Chief of Section, NATO Support and Procurement Agency (NSPA), NATO	
11:00 - 11:20	<b>Does Current Maintenance of Commercial Aircraft Cabin Air-condition Filters Limit or Support the Risk of Infectious Agent Transmission?</b>		
		<b>Mr. Emil PAVLÍK</b> Czech Technical University in Prague, CZE	
11:20 - 11:40	<b>Epidemiological Humanitarian Aid: data for evidenced based decision making in disaster and conflict medicine</b>		
		<b>Mr. John QUINN</b> Prague Center for Global Health, Institute of Hygiene and Epidemiology, First Faculty of Medicine, USA	
11:40 - 12:00	<b>MEDICAL Conference Summary and Chairman's Closing Remarks</b>		
12:00 - 13:00	<b>Lunch Break &amp; Networking</b>		

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# MILITARY MEDICAL AGENCY



The Czech Armed Forces Military Medical Agency is an executive body and a provider of medical services to the Czech Armed Forces. It is directly subordinated to the Division of Support of the Ministry of Defence. All medical facilities with the exception of unit dressing stations and state-funded institutions (military hospitals) report to the Military Medical Agency.

## Tasks:

- Responsibility for the level and quality of provided medical services in primary care;
- Competence of the executive body for handling pharmaceuticals, addictive substances, medical drugs and the securing of their quality in the MoD;
- Input in the realisation of the performance of the public sphere, including state medical supervision in the area of public health protection, the protection of health from ionising radiation, performance of government function in veterinary area within the MoD;
- Medical service provision with the use of own providers;
- Evaluation of medical fitness for active military service and participation in the preparation of related legislative measures;
- Developing cooperation of the MoD and the Ministry of Health in the domain of pharmaceuticals handling, public health protection, defence and crisis planning;
- Delivering complex veterinary care and canine specialisations training;
- Ensuring the biological defence of forces;
- Provision of counselling support and mental health care.



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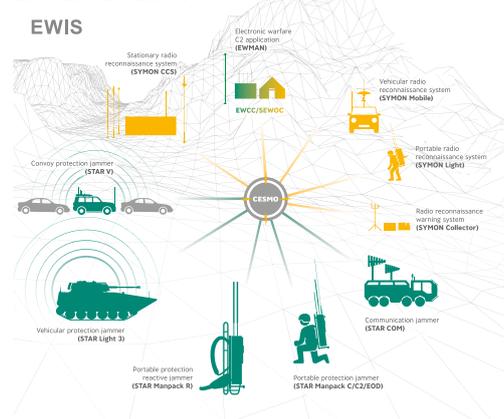


**JISR Institute at Baltic CESMO Trial 2018**

JISR Institute subject matter experts joined Baltic CESMO Trial 2018 (BCT18) held in Putlos military area, Germany, from 15<sup>th</sup> to 28<sup>th</sup> of June. The trial's main goal was to test and trial new capabilities for Co-operative Electronic Support Measures Operations (CESMO). CESMO enables the collaboration of EW sensors in a joint and combined environment while providing the mechanisms to coordinate the collection effort. CESMO products, mainly the emitter positions and measured parameters, were converted into the Common Electronic Order of Battle (C-EOB) format and sent to the Electronic Warfare Coordination Centre (EWCC) in support of NATO trial UNIFIED VISION 2018 (UV18). The CESMO data was thereafter fused with other Electronic Warfare information, such as the data from Hradiště, Czech Republic, to create a theater common Electronic Order of Battle (EOB). This EOB was then provided in support of NATO trial UNIFIED VISION 2018 (UV18) to the SIGINT and EW Opera-

tions Centre (SEWOC) located at Rammstein Air Force Base, Germany. In support of BCT18, Armed Forces from Germany and the Czech Republic deployed a multitude of passive surveillance sensor systems to Putlos, such as VERA-NG, SRTP, MRTP or SDD for radar surveillance and PRTA with MPRS for comms surveillance. PRTA and MPRS were deployed as a part of our Electronic Warfare Integrated Solution (EWIS), which was tested and evaluated. Flying platforms such as the German Air Force Tornado ECR or the German Navy P-3C Orion were included as well. France, while not actively participating, supported with observers and analysis software. URC Systems, a part of JISR Institute's consortium, is the main developer of the current CESMO software provided to participants. This software was employed on all sensors including the flying platforms. The company is also the prime contractor of the Czech Armed forces to implement CESMO into Czech EW sensors. Additionally, the capabilities of the SIAC project, a Czech project aiming to implement full CESMO Fusion and Coordination (CFC) functionality and consisting of a fully deployable container belonging to the 53<sup>rd</sup> EW&RECCE, were demonstrated.

The software made by our specialists was used as the backbone system for the entire BCT18 and was used by German Air Force to connect Tornado ECR and P-3C Orion to the CESMO network and German Navy as well. Baltic CESMO Trial 2018 proved the functionality of our CESMO implementation which provides fast and effective data exchange among passive surveillance systems and their Fusion and Coordination Cell. It also proved the ability of our subject matter experts to effectively support a customer during tests and trials. The BCT18 trial manager LtC. Marco Mehling stated: "CESMO in its current state is ready go operational. The procedures are sound and the software is mature."



## CONGRESS Programme Committee



**Mr. Daniel Koštoval, M.Sc.**  
Head of the Armaments and Acquisition Division, Ministry of Defence, CZE  
*Chairman FFISC*



**MG Jaromír Alan, M.Sc.**  
Director Capability Planning Division, Ministry of Defence, CZE  
*Vice-Chairman*



**Mr. Magnus Hallberg**  
Project Manager Soldier Equipment, Land Warfare centre; NATO Army Armaments Group (NAAG) Land Capability Group Dismounted Soldier Systems (LCGDSS) Vice-Chairman, SWE  
*Vice-Chairman*

## Thematic Panel Session Chairmanship



**Ms. Jana Barančicová**  
Logistics Agency, Logistic Materiel Supply Center Brno, Dept. For Technical Specifications, MoD; Vice-Chairperson NATO LCGDSS/CCIEP WG, CZE  
*Chairperson Survivability Panel*



**MG Ivo Střecha, Dipl. Eng.**  
Director Force Development Division, Ministry of Defence, CZE  
*Chairman Lethality Panel*



**MAJ Jan Badinský**  
Military Police Headquarters, NATO Army Armaments Group (NAAG) Non Lethal Capability Working Group, CZE  
*Co-Chairman Lethality Panel*



**LTC Petr Šnajdárek, Dipl. Eng.**  
Reconnaissance and Electronic Warfare Branch, Ministry of Defence – General Staff, CZE  
*Chairman C4ISTAR Panel*

## Discussion Forum



**WEDNESDAY, 17 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2**

10:00 - 13:15

Registration

13:30 - 14:00

**CONGRESS OPENING**

**INTRODUCTORY REMARKS:**



**LTC (Ret.) Richard MÁCHA**

Czech National Armaments Director Representative, Permanent Delegation of the Czech Republic to HQ NATO; NATO AC/225 - NAAG Vice Chairman, CZE



**KEYNOTE SPEECH:**



**Mr. Daniel KOŠTOVAL**

Deputy Minister of Defence – Head of the Armaments and Acquisition Division; Chairman Future Forces Individual Systems Congress (FFISC), CZE



**BG Kevin M. Copsey OBE**

Head Future Force Development; NATO Army Armaments Group Chairman, NATO Army Armaments Group (NAAG), GBR



**Mr. Mark RICHTER**

NATO AC/225 LCG DSS Chairman; Marine Expeditionary Rifle Squad, Marine Corps Systems Command, USA



14:00 - 16:00

**DISCUSSION FORUM**

Moderated by: LTC (Ret.) Richard MÁCHA

**TOPICS:**

- Future Soldier Systems Projects, Advanced Systems for Specialists
- Lessons Learned, Capability Gaps and Requirements, Future Challenges,
- Operations in Complex Urban Environment
- Interoperability (International, Inter-Service)

**DISCUSSION FORUM PANELISTS:** (in alphabetical order)



**Mr. L.M. (Luc) de BEER**

Project Manager, VOSS - Improved Operational Soldier System, Directorate of Projects and Procurement / Project Branch, Defence Materiel Organization, Ministry of Defence, NLD



**BG Kevin M. Copsey OBE**

Head Future Force Development; NATO Army Armaments Group Chairman, NATO Army Armaments Group (NAAG), GBR



**MAJ Magnus HALLBERG**

NATO AC/225 LCG DSS Vice-Chairman; Project Manager Soldier Equipment, Land Warfare Centre, SWE



**Mr. Daniel KOŠTOVAL**

Deputy Minister of Defence – Head of the Armaments and Acquisition Division, CZE



**Prof. Josef LAZAR**

Member of Academy Council responsible for coordination of knowledge and technologies transfer to the application sphere, Czech Academy of Sciences, CZE



**Mr. Mark RICHTER**

NATO AC/225 LCG DSS Chairman; Marine Expeditionary Rifle Squad, Marine Corps Systems Command, USA





**Mr. Karl-Heinz RIPPERT**

Federal Office of Bundeswehr Equipment, Information Technology and In-Service Support (BAAINBW), German Armed Forces, DEU



**BG Karel ŘEHKA**

Deputy Commander, NATO Multinational Division North East, NATO



**MG Ivo STŘECHA**

Director Force Development Division, Ministry of Defence, CZE



**Mr. Pavel ŽŮNA**

Director, NATO Science Technology Organisation / Collaboration Support Office, NATO



**ICZ Group – PLATINUM Partner**

LTC (ret.) Peter PŮŠPÖKY - Executive Director, DELINFO, spol. s r.o., CZE



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- OPTOKON HMA EXPANDED BEAM CONNECTORS
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Reliable, ruggedized, high performance connectors for all harsh environments

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- OFT-920 RUGGEDIZED LOSS TEST SET
- PM-920 RUGGEDIZED POWER METER
- OFTE-930 RUGGEDIZED HYBRID TESTER

OPTOKON harsh environmental portable fiber optic test equipment performs the crucial function of testing fixed and deployable harsh environment fiber cables to ensure long term reliability and operation.



### CABLE DRUMS

OPTOKON high quality deployable cable drums are provided in various sizes and configurations to suit varying field applications.

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- LMC SERIES MEDIA CONVERTERS
- LMSW - RUGGEDIZED FIELD SWITCHES
- LMSB - COMMUNICATION MODULES
- LMCP - MOBILE COMPUTING PLATFORM



**LMIPT-41** High-class Rugged IP Phone  
- Proven Cisco technology  
- Five programmable line keys  
- Encrypted voice communications  
- Widescreen VGA backlit color display

OPTOKON LMIPT-41 is a rugged IP phone specially designed for use in harsh environmental conditions. The IP phone delivers the latest technology and advancements in IP telephony based on a Cisco 8841 platform. OPTOKON LMIPT-41 is built into a fully sealed and vibration proof aluminum chassis.



**LMSW-83M**  
- Ruggedized Gigabit Ethernet Layer 2 Managed PoE Switch  
- 3x 100/1000Base-X FO HMA  
- 8x 10/100/1000Base-T, RJ-45 with PoE+

The LMSW-83M is Layer 2 military grade managed switch with 3x Fiber optic HMA-J ports (Gigabit or Fast Ethernet) and 8x 10/100/1000Base-X RJ-45 ports with PoE+ functionality that provides stable and reliable Ethernet transmission. The LMSW-M series models can provide excellent data optical network performance and rugged design.



**LMCP-28H/41H**  
- Light Mobile Computing Platform  
- 2x 100/1000Base-X HMA uplinks  
- 8x 10/100/1000Base-T switched PoE LAN ports  
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The OPTOKON LMCP introduces a mobile computing system that entangles the connection and management of additional digital audio, video, data signals. The LMCP is available in rugged boxes to fulfill all demands on communication systems used in harsh environmental conditions.



**LMCP-7H**  
Compact, ultra-durable server  
- Intel Core i7-6600U, 2x 2.6 GHz  
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- 7x LAN + 3x WAN 1 GbE  
- CAN bus Interface



LMSB-15 Unified Communication and Information Module

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## Survivability Panel Programme



**THURSDAY, 18 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2**

08:30 - 09:15

Registration

09:00 - 09:15

Poster Sessions

09:30 - 12:00

**Ballistics & Fragmentation Protection**  
Co-chaired by Mr. Jonathan RUSSELL

09:30 - 09:40

**Introductory Remarks and Welcome Speech**



**Ms. Jana BARANČICOVÁ**

Chairperson Survivability Panel; Dept. for Technical Specifications, Logistic Materiel  
Supply Center Brno, Logistics Agency, MoD; Vice-chairperson NATO LCG DSS/CCIEP WG, CZE



09:40 - 10:10

**KEYNOTE SPEECH – Ballistics and Fragmentation Protection: A NATO CCIEP and UK MOD View**



**Mr. Jonathan RUSSELL**

Principal Scientist at DSTL; Chairman NATO LCG/DSS/HBS Head Borne Systems Team of Experts, GBR



10:10 - 10:30

**Industry Presentation – CSC European Defense Business Management GmbH**  
**New Protective Concept for Soldiers**



**Mr. Jim HEESE**

Technical Application Manager within DSM Dyneema, NLD



10:30 - 10:50

**Industry Presentation – DSM Dyneema**  
**Light Weight Body Armor Based on Dyneema® Force Multiplier Technology**



**Mr. Hans MEULMAN**

Technical Application Manager within DSM Dyneema, NLD



10:50 - 11:10

**Industry Presentation – BlackBox Biometrics**  
**Health and Situational Awareness: Immediate Response Through Real-Time Alerts**



**Mr. Scott J. FEATHERMAN**

CAPT, US Army; Director Business Development at BlackBox Biometrics, Inc., USA



**Mr. David A. BORKHOLDER**

Founder and CTO at BlackBox Biometrics, Inc., USA



11:10 - 11:30

**Panel DISCUSSION – Ballistics & Fragmentation Protection**

11:30 - 12:00

**Dynamic Presentations – HALL 6**

12:00 - 13:00

Lunch, Exhibition Tour, Networking

12:30 - 12:45

Poster Sessions

13:00 - 16:00

**Flame, Flash & Environmental Protection**  
Co-chaired by Ms. Celia S. POWELL

13:00 - 13:30

**KEYNOTE SPEECH – Flame, Flash & Environmental Protection: A NATO CCIEP and US Army View**



**Ms. Celia S. POWELL**

Chairman, NATO LCGDSS Flame Protection WG and Lead Nation Support for Flame/Flash  
and Environmental Protection; Textile Chemist, The U.S. Army Natick Soldier Research, Development & Engineering Center  
(NSRDEC), USA



13:30 - 13:50

**SILVER Partner Presentation – W.L. Gore & Associates, Inc.**  
**Next Generation Flame Protective Rainwear and Insulating Garments. Field Proven,  
Battle Tested. GORE protective fabrics play a vital role in the development of  
Personal Protective Equipment for warfighters**



**Mr. Tim QUINN**

Product Specialist, W.L. Gore & Associates, Inc., USA



13:50 - 14:10	<b>SILVER Partner Presentation – Milliken &amp; Co.</b> <b>The Evolution of Milliken Flame Resistant Fabrics</b>	
	 <b>Mr. Tommy YOUNG</b> Senior Global Account Manager, Milliken & Co., USA 	
14:10 - 14:30	<b>Industry Presentation – Concordia Textiles</b> <b>TICKMOKILLER® the Inherent Mosquito, Tick and Flame Retardant Protection</b>	
	 <b>Mr. Dirk DE LOCHT</b> Business Unit Manager Workwear at Concordia Textiles, BEL 	
<b>14:30 - 14:40</b>	<b>Leg Stretch &amp; Networking</b>	
14:40 - 15:00	<b>Industry Presentation – Propel LLC</b> <b>Advanced Wireless Textiles</b>	
	 <b>Ms. Clare KING</b> President, Propel LLC, USA 	
15:00 - 15:20	<b>Panel DISCUSSION – Flame, Flash &amp; Environmental Protection</b>	
15:20 - 15:30	<b>Chairperson's Closing Remarks</b>	
	 <b>Ms. Jana BARANČICOVÁ</b> Chairperson Survivability Panel; Dept. for Technical Specifications, Logistic Materiel Supply Center Brno, Logistics Agency, MoD; Vice-chairperson NATO LCG DSS/CCIEP WG, CZE 	
<b>16:15 - 17:00</b>	<b>Social Event for Speakers, Leonardo Helicopters VIP Lounge, Hall 4</b>	

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# C4ISTAR

is first of all a capability...

Company **DELINFO, spol. s r.o.**, a member of ICZ Group, is the main supplier of the Command and Control System for the Czech Ground Force (ICZ DELINFOS®). No one doubts whether to the effective operation of the C2 System seamless information exchange is necessary; both among single subsystems (Command Post – Vehicle – Dismounted Soldier), and directly, e.g. from a specialized soldier to the staff of the unit and others. Single subsystem interoperability with similar NATO/NATO countries subsystems has to be the matter of course. Such an interoperability is being achieved by DELINFO through the participation in some NATO working groups business. The implementation success of those standards has been proven within the employment of the ICZ DELINFOS® during international exercises, where our soldiers achieve ordinarily excellent results. During the International Defence Exhibition IDEB 2018 in Bratislava our company together with MSM Martin s.r.o. and OP-TOKON a.s. presented integration of ICZ DELINFOS® into specific platforms, starting with a Dismounted Soldier Terminal through LMCP28, the heart of the PATRIOT vehicle, up until 3D table of the unit commander. This comprehensive system hold exhibitor's interest by its complexity and moreover it was awarded as for GRAND PRIX IDEB 2018. C4ISTAR panel is a part of the Future Forces Exhibition 2018, where interested persons can take up with demonstration of the C4ISTAR complex solution. This solution is going to be presented at the display stand of DELINFO too.

## ICZ DELINFOS



## C4ISTAR Panel Programme

 **THURSDAY, 18 OCTOBER 2018**

 **PVA EXPO PRAHA, HALL 2**

08:30 - 09:15 **Registration**

09:00 - 09:15 **Poster Sessions**

**09:30 - 12:00 Morning Session**  
Moderated by: **LTC Petr ŠNAJDÁREK**

09:30 - 09:35 **Introductory Remarks and Welcome Speech**



**LTC Petr ŠNAJDÁREK**

Chairman C4ISTAR Panel; Chief of ISR Department, Reconnaissance and Electronic Warfare Department, Ministry of Defence, CZE



09:35 - 10:00 **Keynote Speech**



**BG František RIDZÁK**

Director, Communication and Information Systems Agency, Ministry of Defence, CZE



**COL Vladimír LANG**

Director, Reconnaissance and Electronic Warfare Department, Ministry of Defence, CZE



**LTG (Ret.) Miroslav ŽIŽKA**

former the First Deputy Chief of the General Staff; former Military Representative (MILREP) of the Czech Republic at the NATO Military Committee; Director of special military projects, EXCALIBUR INTERNATIONAL a.s., CZE



10:00 - 10:30 **Czech ISR & EW Capabilities**



**LTC Petr ŠNAJDÁREK**

Chairman C4ISTAR Panel; Chief of ISR Department, Reconnaissance and Electronic Warfare Department, Ministry of Defence, CZE



10:30 - 10:40 **PLATINUM Partner Presentation – ICZ**  
**ICZ – Reliable Partner of Czech Army**



**LTC (Ret.) Peter PŮŠPŮKY**

Executive Director, DELINFO, spol. s r.o.



10:40 - 11:00 **NATO Land Capability Group – Dismounted Soldier Systems (LCG DSS) C4I&A WG**



**Ir. M.D.E. (Marcel) van der LEE**

Acting Chairman NATO LCG DSS / C4I&A WG; TNO, NLD



11:00 - 11:20 **GOLD Partner Presentation – JISR Institute**  
**JISR in Area of Operation**



**Mr. Petr KOPEČEK**

Subject Matter Expert, JISR, CZE



11:20 - 11:40 **GOLD Partner Presentation – DELINFO**  
**Dismounted Soldier (System) on Battlefield**



**LTC (Ret.) Zbyšek WEISS**

Deputy Director, DELINFO, spol. s r.o.



11:40 – 12:00	<b>GOLD Partner Presentation – OPTOKON</b> <b>Vehicle platform in light C4ISTAR and DSS - Dynamic Presentation – Hall 3, Stand 350</b>	
	 <b>COL (Ret.) Josef KARBAS</b> Director of special systems department, OPTOKON, a.s., CZE	
<b>12:00 - 12:30</b>	<b>FFISC Dynamic Presentations – Hall 3, Hall 6</b>	
<b>12:30 - 13:30</b>	<b>Lunch &amp; Networking</b>	
<b>12:45 - 13:00</b>	<b>Poster Session</b>	
<b>13:30 - 16:00</b>	<b>Afternoon Session</b> <b>Moderated by: LTC Petr ŠNAJDÁREK</b>	
13:30 - 14:00	<b>CZE C4ISTAR INDUSTRY Dynamic Presentation – Hall 3, Stand 350</b> <b>C4ISTAR Partners – ICZ / DELINFO / OPTOKON / JISR</b>	
14:00 - 14:20	<b>Future Imperfect – Conundrum of Suddenly Human and Bio-Convergent: What Will the Future Army Look Like in 2050?</b>	
	 <b>Ms. Ina WANCA</b> Professor at NYU, and John Jay College of Criminal Justice. Founder of AI Governance, USA	
14:20 - 14:40	<b>SILVER Partner Presentation – ROHDE &amp; SCHWARZ</b> <b>C4ISTAR Solution for Czech Army</b>	
	 <b>Mr. Pavel KOTYK</b> Sales Engineer, ROHDE & SCHWARZ, CZE	
14:40 - 15:10	<b>Police Mobile Secure Platform</b>	
	 <b>LTC Jiří BASARABA</b> Department of IT Development and Operations, Police Presidium, CZE	 
	 <b>CAPT Iva KOUBKOVÁ</b> Department of IT Development and Operations, Police Presidium, CZE	 
15:10 – 15:30	<b>Industry Slot – Panasonic Business</b> <b>TOUGHBOOK and TOUGH PAD for reliable and secure mobile computing during critical missions</b>	 <b>TOUGHBOOK</b> <b>TOUGH PAD</b>
	 <b>Dr. Timo UNGER</b> Country Manager D-A-CH, Panasonic Computer Product Solutions	
15:30 - 15:50	<b>C4ISTAR Panel Discussion</b>	
15:50 - 16:00	<b>Chairman's Closing Remarks</b>	
	 <b>LTC Petr ŠNAJDÁREK</b> Chairman C4ISTAR Panel; Chief of ISR Department, Reconnaissance and Electronic Warfare Department, Ministry of Defence, CZE	
<b>16:15 - 17:00</b>	<b>Social Event for Speakers, Leonardo Helicopters VIP Lounge, Hall 4</b>	

## LETHALITY Panel Programme



**THURSDAY, 18 OCTOBER 2018**

**PVA EXPO PRAHA, HALL 2**

08:30 - 09:15 **Registration**

09:00 - 09:15 **Poster Sessions**

### 09:30 - 12:00 **LETHAL WEAPONS AND SYSTEMS** Chaired by MAJ. Jan BADINSKÝ

09:30 - 09:40 **Introductory Remarks and Welcome Speech**



**MAJ Jan BADINSKÝ**

Chief Planning Officer, Military Police Headquarters; NATO Joint Non Lethal Weapon Capabilities Group (JNL WCG) national representative, CZE



09:40 - 10:10 **Czech Armed Forces Armament acquisition projects**



**COL (GS) Pavel LIPKA**

Director, Development of Land Forces Department, Force Development Division of the Ministry of Defence, CZE



10:10 - 10:40 **Industry Capability Presentation – Česká zbrojovka**



**Mr. Petr VÁVRA**

Head of Military Department, Česká zbrojovka, CZE



10:40 - 11:00 **Industry Capability Presentation – Rheinmetall Defence**  
“The Use of Open Standards within Live Simulation in National & International Exercises”



11:00 - 11:30 **The Logistic Kill Chain**



**Mr. Thomas L. NIELSEN**

Senior Technician, NATO Support and Procurement Agency (NSPA), NATO



11:30 - 12:00 **Dynamic Presentations, HALL 6**

12:00 - 13:00 **Lunch & Networking**

12:45 - 13:00 **Poster Sessions**

### 13:00 - 14:45 **NON-LETHAL WEAPONS AND SYSTEMS** Chaired by MAJ. Jan BADINSKÝ

13:00 - 13:20 **Introductory Remarks and Keynote Speech**



**MAJ Jan BADINSKÝ**

Chief Planning Officer, Military Police Headquarters; NATO Joint Non Lethal Weapon Capabilities Group (JNL WCG) national representative, CZE



13:20 - 13:50 **Effects of Non-lethal impacts on the human body**



**MAJ Alexandre PAPY**

Associate professor in the department of weapon systems & ballistics of the Royal Military Academy; NATO Joint Non Lethal Weapon Capabilities Group (JNL WCG) Chairman, BEL



13:50 - 14:20 **A key facilitator in developing & fielding Non-Lethal Capabilities within Member States' military forces**



**LTC Constantin CIOCIRLAN**

Project Officer (PO) Engage, EDA; European Defence Agency - Project team Non Lethal Capabilities representative, ROU



14:20 - 14:40 **NLW Discussion**

14:40 - 14:45 **Chairman's Closing Remarks**



**MAJ Jan BADINSKÝ**

Chief Planning Officer, Military Police Headquarters; NATO Joint Non Lethal Weapon Capabilities Group (JNL WCG) national representative, CZE



**16:15 - 17:00 SOCIAL EVENT FOR SPEAKERS, Leonardo Helicopters VIP Lounge, Hall 4**

**Monitoring deformations of buildings and their technologies using the measuring system developed at the Research Institute of Geodesy, Topography and Cartography**

HYNI measuring system is designed for continuous monitoring of vertical displacement of constructions and technological parts of strategic facilities, including power plants. On-line monitoring of objects is performed in real time with immediate output of numerical and graphical evaluated measured results.

The principal advantage of automated measuring system is virtually continuous measurement without operator intervention, high accuracy of deformation measurement, independent measurement of environmental characteristics, independence of the measurement at different temperatures of inspected facility and ultimately lower costs compared with the costs of applying conventional technologies.



HYNI Measurement sensors



Scheme of a nuclear power plant where HYNI sensors are used on baseplates and TG technologies

Some of the specifications of measuring system sensors:

Dimensions: height = 270 mm, width = 205mm, depth = 275 mm

Weight of sensor (including liquid): 13 kg      Power supply: 18 - 30 V, 0.5 A

Measuring range: 10 - 90 mm      Communication: RS-485

Temperature measurement range: +5 to + 50°C (liquid no. 1), - 20 to + 50 ° C (liquid no. 2)

Sensor resolution: 0,001 mm

Elevation measurement accuracy : 0.05 mm

**Contacts in the Czech Republic**

**Research Institute of Geodesy, Topography and Cartography (VUGTK, v. v. i.):**

**Tel.: +420226802302, Fax: +420284890056 E-mail: [vugtk@vugtk.cz](mailto:vugtk@vugtk.cz), [www.vugtk.cz](http://www.vugtk.cz)**

## GEOMETOC Partners



## GEOMETOC Programme Committee



**COL (GS) Jan Čírek, Dipl. Eng.**  
Hydrometeorological Service, General Staff, Armed Forces, CZE  
*Chairman*



**LTC Jan Matula, Dipl. Eng.**  
Department of Military Geography and Hydrometeorology, General Staff, CZE  
*Vice-chairman GEO Session*



**COL (Ret.) Karel Brázdil, Dipl. Eng., Ph.D.**  
Director, Land Survey Office, CZE  
*Vice -chairman GEO Session*



**Mr. Libor Černíkovský, MSc.**  
Deputy Director, Czech Hydrometeorological Institute, CZE  
*Vice-chairman HYDROMETEORO Session*



**LTC Jiří Hubička, Dipl. Eng.**  
Chief of GNSS Department, Office of Military Geography and Hydrometeorology, CZE  
*Vice-chairmen GNSS Session*



**Mr. Radovan Klíma, Dipl. Eng.**  
Competent PRS Authority, National Cyber and Information Security Agency, CZE  
*Vice-chairmen GNSS Session*



**Mr. Daniel Koštoval, M.Sc.**  
Head of the Armaments and Acquisition Division, Ministry of Defence, CZE  
*Honorary Chairman*



**COL (GS) Marek Vaněk, Dipl. Eng.**  
Chief of Geographic Service, General Staff, Armed Forces, CZE  
*Honorary Chairmen*



**Mr. Mark Rieder, M.Sc.**  
Director of Czech Hydrometeorological Institute, CZE  
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## Programme

 **WEDNESDAY, 17 OCTOBER 2018**

 **PVA EXPO PRAHA, HALL 2**

**10:00 - 13:15**      **Registration**

**12:45 - 13:15**      **Poster Sessions**

### **13:30 - 14:00**      **CONFERENCE OPENING**

#### **INTRODUCTORY REMARKS:**



**Prof. Milan KONEČNÝ**

GEOMETOC Moderator, Department of Geography, Masaryk University, CZE



#### **KEYNOTE SPEECH:**



**H.E. Richard BRABEC**

Deputy Prime Minister and the Minister for the Environment, CZE



**Mr. Jaroslav ŠMÍD**

Deputy Director, National Cyber and Information Security Agency, CZE



**Mr. Václav KOBERA**

Director of Intelligent Transport Systems, Space Activities and Research, Development and Innovation Department, Ministry of Transport of the Czech Republic, CZE



**COL Jan ČÍREK**

GEOMETOC Chairman, Chief of Hydrometeorological Service, General Staff, Czech Armed Forces, CZE



### **14:00 - 16:00**      **DISCUSSION FORUM/PLENARY**

#### **Topics at Strategic Level:**

- **Understanding of Environmental and Technological Risks**
- **Civil-Military Cooperation to Improve Disaster Preparedness and Prevention**
- **SENDAI Framework Disaster Risk Reduction (2015-2030)**

#### **MODERATOR:**



**Prof. Milan KONEČNÝ**

Department of Geography, Masaryk University, CZE



#### **PANELISTS:** (in alphabetical order)



**BG (Ret.) Abraham BACHAR**

Israeli Homeland Security Team, ISR



**H.E. Richard BRABEC**

Deputy Prime Minister and the Minister for the Environment, CZE



**COL Jan ČÍREK**

GEOMETOC Chairman, Chief of Hydrometeorological Service, General Staff, Czech Armed Forces, CZE



**Mr. Karel DOBEŠ**

Government Commissioner, The Collaboration with the European Agency for Global Navigation Satellite Systems (GSA), CZE



**COL Daniel MIKLÓS**

Deputy Director General, General Directorate of Fire Rescue Service, CZE



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- ✓ 3D Visualisation/Modelling
- ✓ Addressing Technology
- ✓ Aerial Imagery/Photography
- ✓ Asset Management
- ✓ Bathymetry
- ✓ Big Data
- ✓ Business Geographics/ Analytics
- ✓ Cadastral Mapping
- ✓ Cartography
- ✓ Climate Change
- ✓ Computing in the Cloud
- ✓ Crime Mapping/ Modelling
- ✓ Data Capture/Collection
- ✓ DEM- Digital Elevation Model
- ✓ DGPS - Differential GPS
- ✓ Digital City Models
- ✓ Digital Mapping
- ✓ Digital Rights Management
- ✓ Disaster Management/ Monitoring
- ✓ DSM - Digital Surface Model
- ✓ DTM - Digital Terrain Model
- ✓ Dynamic Mapping
- ✓ Earth Observation
- ✓ Emergency Services
- ✓ ENC - Electronic Navigation Chart
- ✓ Environmental Monitoring
- ✓ Galileo
- ✓ Geo-ICT
- ✓ Geodesy
- ✓ Georeferencing
- ✓ Geosciences
- ✓ Geospatial Image Processing
- ✓ GIS
- ✓ GIS in Agriculture & Forestry
- ✓ GLONASS
- ✓ GMES
- ✓ GNSS
- ✓ GPS
- ✓ GSDI
- ✓ Hardware
- ✓ Hydrography
- ✓ Hyperspectral Imaging
- ✓ Image Analysis
- ✓ INSPIRE
- ✓ Integration
- ✓ Interoperability & Open Standards
- ✓ Land Information Systems
- ✓ Laser Scanning
- ✓ LBS
- ✓ LiDAR
- ✓ Mapping Software
- ✓ Marine Tracking & Navigation
- ✓ Mobile GIS/Mapping
- ✓ Municipal GIS
- ✓ Navigation
- ✓ Network Topology
- ✓ NSDI
- ✓ Open GIS
- ✓ Photogrammetric
- ✓ Photogrammetry
- ✓ Point Clouds
- ✓ Property Information Systems
- ✓ Radio Navigation
- ✓ Remote Sensing
- ✓ Risk Management
- ✓ RTK (Real Time Kinematic) Surveying
- ✓ Satellite Imagery/Navigation
- ✓ Scanning Technology
- ✓ SDI - Spatial Data Infrastructures
- ✓ Smart Grids
- ✓ Software
- ✓ Surveying Instrumentation
- ✓ Surveying Technology Sensor
- ✓ Telematics
- ✓ Topographic Mapping
- ✓ Total Station
- ✓ Tracking & Route Planning
- ✓ Transport
- ✓ Utilities GIS
- ✓ Vehicle Tracking & Navigation
- ✓ VRS - Virtual Reference Station
- ✓ Web Mapping

## Sectors covered:

- ✓ Aerospace
- ✓ Agriculture
- ✓ Archaeology & Heritage
- ✓ Architecture
- ✓ Biosecurity
- ✓ Business Security/Service
- ✓ Central/Local/Regional Government
- ✓ Construction
- ✓ Consulting Services
- ✓ Cyber Security
- ✓ Defence
- ✓ Education
- ✓ Emergency Services
- ✓ Energy Utility
- ✓ Engineering
- ✓ Environmental Management
- ✓ Environmental Monitoring
- ✓ Financial Services
- ✓ Fisheries
- ✓ Forestry Management
- ✓ Geosciences
- ✓ Healthcare
- ✓ Infrastructure Protection
- ✓ Insurance
- ✓ Manufacturing
- ✓ Marine
- ✓ Military
- ✓ Mining
- ✓ Natural Resource Management
- ✓ Oil & Gas
- ✓ Property
- ✓ Public Safety/Works
- ✓ Retail
- ✓ Shipping
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- ✓ Training
- ✓ Transport
- ✓ Utilities (Energy & Water)

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	<b>LTC Andrew PAGE</b> European Union Military Staff (EUMS), EU	 
	<b>Mr. Kornélia RADICS</b> President, Hungarian Meteorological Service (OMSZ), HUN	
	<b>Mr. Mark RIEDER</b> Director, Czech Hydrometeorological Institute, CZE	
	<b>Mr. Jaroslav ŠMÍD</b> Deputy Director, National Cyber and Information Security Agency, CZE	



**THURSDAY, 18 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2**

08:30 - 09:15 **Registration**

09:00 - 09:15 **Poster Sessions**

**09:30 - 11:50 GEOSPATIAL SUPPORT IN CRISIS MANAGEMENT**

09:30 - 09:40 **INTRODUCTORY REMARKS:**

		<b>LTC Jan MATULA</b> Vice-chairman GEO Session; Department of Military Geography and Hydrometeorology, General Staff, CZE	
		<b>COL (Ret.) Karel BRÁZDIL</b> Vice-chairman GEO Session; Director, Land Survey Office, CZE	
09:40 - 10:00	<b>The GIS Support of FRS CR</b>		
		<b>COL Jan BROTHÁNEK</b> General Directorate of Fire Rescue Service, CZE	 
10:00 - 10:20	<b>Geospatial Intelligence support in Crisis Management – EU SatGen Approach</b>		
		<b>Mr. Giuseppe D'AMICO</b> Deputy Director, European Union Satellite Centre, EU	 
10:20 - 10:40	<b>Geospatial Support to the European Union CSDP Operations and Missions</b>		
		<b>LTC Andrew PAGE</b> European Union Military Staff (EUMS), EU	 
10:40 - 11:00	<b>Coffee Break &amp; Networking</b>		
11:00 - 11:20	<b>The Role of GIS Modelling and Infrared Technology to Detect the Missing Miners Trapped Underground</b>		
		<b>Mr. Hamid ASHRAF</b> Wits Mining Institute, University of the Witwatersrand, Johannesburg, PAK	 
11:20 - 11:40	<b>Mobile Infrastructure Vulnerabilities</b>		
		<b>Mr. Tomáš ROSA</b> External Consultant, National Cyber and Information Security Agency, CZE	
11:40 - 12:00	<b>Czech Satellite Centre – National Agency for Satellite Imagery Acquisition and Analysis</b>		
		<b>COL Ladislav STAHL</b> Commander, Czech National Satellite Centre, CZE	

12:00 - 13:00 **Lunch & Networking**

12:30 - 12:45 **Poster Sessions**

<b>13:30 - 16:00</b>	<b>HYDROMETEOROLOGICAL SUPPORT IN CRISIS MANAGEMENT</b>	
Moderated by: <b>Mr. Libor ČERNIKOVSKÝ</b>		
13:30 - 13:40	<b>INTRODUCTORY REMARKS:</b>	
	 <b>COL Jan CÍREK</b> GEOMETOC Chairman; Chief of Hydrometeorological Service, General Staff, Czech Armed Forces	
	 <b>Mr. Libor ČERNIKOVSKÝ</b> Vice-chariman HYDROMETEO Session; Meteorology and Climatology Director, Czech Hydrometeorological Institute, CZE	
13:40 - 14:00	<b>A methodology to build "National Resilience Strategy"</b>	
	 <b>BG (Ret.) Abraham BACHAR</b> Israeli Homeland Security Team, ISR	
14:00 - 14:20	<b>News at Integrated Warning Service System (IWSS) for dangerous weather and floods</b>	
	 <b>Mr. František ŠOPKO</b> Czech Hydrometeorological Institute, CZE	
14:20 - 14:40	 <b>Mrs. Marie ADÁMKOVÁ</b> Department of Security and Crisis Management, Ministry of the Environment of the Czech Republic, CZE	
<b>14:40 - 15:00</b>	<b>Coffee Break &amp; Networking</b>	
15:00 - 15:20	<b>NATECH – Technological disasters initiated by natural hazards</b>	
	 <b>Prof. Pavel DANIHELKA</b> Faculty of Safety Engineering, VSB – Technical University of Ostrava, CZE	
15:20 - 15:40	<b>Development of disaster risk reduction in the Czech Republic</b>	
	 <b>Mr. Ivan OBRUSNÍK</b> Chairman - Czech National Committee for Disaster Reduction, CZE	
15:40 - 16:00	<b>The Role of DHMZ in the National DRR Platform of Croatia</b>	
	 <b>Mrs. Branka IVANČAN-PICEK</b> Director, Meteorological and Hydrological Service, CRO	
<b>16:15 - 17:00</b>	<b>SOCIAL EVENT FOR SPEAKERS, Leonardo Helicopters VIP Lounge, Hall 4</b>	


**FRIDAY, 19 OCTOBER 2018**

**PVA EXPO PRAHA, HALL 2**
**08:30 - 09:15**    **Registration**

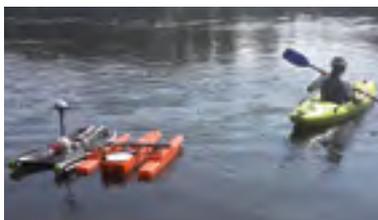
<b>09:30 - 11:30</b>	<b>GLOBAL NAVIGATION SATELLITE SYSTEMS (GNSS) IN CRISIS MANAGEMENT</b>	
9:30 - 9:35	<b>INTRODUCTORY REMARKS:</b>	
	 <b>Mr. Radovan KLÍMA</b> Vice-chairman GNSS Session; Competent PRS Authority, National Cyber and Information Security Agency, CZE	
09:35 - 09:40	<b>Keynote Speech</b>	
	 <b>Mr. Jaroslav ŠMÍD</b> Deputy Director, National Cyber and Information Security Agency, CZE	
09:40 - 09:50	<b>Keynote Speech</b>	
	 <b>LTC Jiří HUBIČKA</b> Vice-chairman GNSS Session; Chief of GNSS Department, Office of Military Geography and Hydrometeorology, CZE	

09:50 - 10:20	<b>GSA: key to European GNSS security</b>	
	 <b>Mr. Carlo DES DORIDES</b> Director European GNSS Agency, EU	
10:20 - 10:50	<b>ESA Technological Activities in PNT Supporting Disaster Risk Reduction and GNSS Security</b>	
	 <b>Mr. Paul VERHOEF</b> Director of Navigation, European Space Agency HQ, EU	
10:50 - 11:20	<b>German GNSS Activities on PRS</b>	
	 <b>Mr. Miroslav KURIDZA</b> GNSS / GALILEO Advisor (DE MoD Sub-structure), DEU	
	<b>German PRS Receiver Development Activities</b>	
	 <b>Mr. Alexander RÜGAMER</b> PRS Program Manager, DEU	
11:20 - 11:40	<b>GNSS oriented geodetic infrastructure in the Czech Republic and GOP contribution to EGNOS Service Performance Monitoring</b>	
	 <b>Mr. Jaroslav ŠIMEK</b> Research Institute of Geodesy, Topography and Cartography, v.v.i., CZE	
11:40 - 12:00	<b>GNSS Discussion and Chairman's Closing Remarks</b>	
12:00 - 13:00	<b>Lunch &amp; Networking</b>	



**CZECH  
HYDROMETEOROLOGICAL  
INSTITUTE**

Czech Hydrometeorological Institute (CHMI) is to serve as the Czech Republic's central government institution for the fields of air quality, hydrology, water quality, climatology and meteorology, performing this function as an objective specialised service provided preferentially for state administration. CHMI establishes and operates national monitoring and observation networks for monitoring of qualitative and quantitative conditions of the atmosphere, including the ozone layer, and the hydrosphere and the causes leading to their pollution or deterioration.

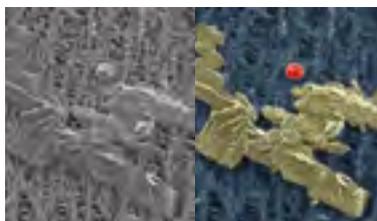


According to the Charter of the Czech Hydrometeorological Institute its main activities include:

- Provision of the civil service in its fields of expertise in a rational, efficient and economical manner;
- Establishment and operation of the national monitoring and observing networks for monitoring the qualitative and quantitative conditions of the atmosphere and hydrosphere and sources resulting in pollution or harmful effects;
- Professional evaluation of the results of observation, measurements and monitoring, following the principles of the EU legislation;

**METEOROLOGY AND CLIMATOLOGY  
HYDROLOGY  
AIR QUALITY CONTROL**

- Establishment and operation of databases on state and quality of the air and sources of its pollution, as well as on state and development of the atmosphere and on quantity and quality of water according to requirement of the EU legislation and international agreements;
- Provision of information on characteristics and regimes of the atmosphere and hydrosphere;
- Provision of operational information on state of the atmosphere and hydrosphere, forecasts and warnings on hazardous meteorological and hydrological phenomena;
- Carrying out technical development of the monitoring, communication and information technologies, scientific and research activities in its field of expertise including design activities;
- Performing, under an authorisation or permission, other specialized technical activities relating to the main activities of the CHMI listed in the Charter of the Institute
- Organisation of technical courses, excursions, training and other educational events for the public, including teaching, environmental education and services of a specialised library.



In line with its Charter, the CHMI is organised as a multidisciplinary institution with close interdisciplinary links and cooperation.



CHMI conducts expert analysis of the obtained measurements, creates and manages databases, provides forecasts and warnings, implements and coordinates scientific research activities. CHMI has an extensive experience in international cooperation especially regarding monitoring of air quality, ozone layer (implementation of the Montreal Protocol) as well as hydrological and meteorological services. CHMI as national weather service provider cooperates with the international meteorological community within the official structure of the World Meteorological Organization and other functional groupings (EUMETNET, ECMWF, FC LACE or Aladin Consortium). CHMI contributes to the collection and sharing of data, shares the capacity development especially in the field of numerical modelling and weather forecast. Climatological database (CLIDATA) developed by the CHMI is currently being used in 36 countries on 4 continents and regular trainings are taking place in the Czech Republic and abroad.

**Czech Hydrometeorological Institute**  
 Na Šabatce 2050/17 +420 244 031 111  
 143 06 Prague 4 chmi@chmi.cz  
 Czech Republic www.chmi.cz

# Geographic and Hydrometeorologic Services of the Czech Armed Forces



**Geographic Service of the Czech Armed Forces (GeoS CAF)** is a part of the Ministry of Defense (MoD) designed for the geographic support of the Czech Armed Forces, NATO and EU armed forces in operations, peace-keeping activities and trainings:

- standard and thematic state map series production;
- geodetic and vertical control points administration for the purposes of national defense;
- gazetteer maintenance;
- international and national cooperation;
- research and development;
- land surveying for the national defense;
- GNSS (Global Navigation Satellite System) user support.



**Hydrometeorologic Service of the Czech Armed Forces (HMS CAF)** is a part of the MoD designed for the hydro-meteorologic support of the Czech Armed Forces, NATO and EU armed forces in operations, peace-keeping activities and trainings:

- hydrometeorologic and information support service for command and control systems;
- aeronautical meteorological services for the military air force;
- hydrometeorologic support of national integrated rescue system and components of state and local governments as a part of national defense tasks;
- provision of meteorological information to the national monitoring system of radiation, chemical and biological situation on the territory of the Czech Republic;
- metrological support.



**Office of Military Geography and Hydrometeorology** is the key production and development facility of the GeoS CAF and HMS CAF. It provides operational geographic and hydrometeorologic support for the Czech Armed Forces on the national territory and abroad:

- military topographic and thematic maps production;
- digital elevation model maintenance;
- remote sensing;
- military geographic information and documentation production;
- geodetic support;
- GNSS implementation to the Czech Armed Forces;
- geophysical monitoring;
- printing services and support for Ministry of Defense, stamp production and military forms administration;
- standardized hydrometeorologic information and products support;
- aeronautical meteorological services for military air force;
- area of interest climatographic description production;
- open atmosphere elements and events evaluation;
- military geographic and hydrometeorologic training.



## MULTINATIONAL LOGISTICS COORDINATION CENTRE

### General

The MLCC is a Multinational Military Organization based in the Czech Republic whose vision is to be a centre of expertise for the development, coordination and provision of efficient and effective multinational military logistics solutions. The MLCC is building its capabilities throughout steps including the MLCC Enlargement, increase of the MLCC members' personnel contribution, effective use of available resources, and enhancement of multinational cooperation. Structure was created for national benefit and it is based on voluntary national contribution. Presently MLCC consists of 16 member nations and 4 other nations signed the Letter of Intent and officially declared their intention to join.

### MLCC mission

The mission of the MLCC is to build and/or enhance logistics capabilities, address critical logistics shortfalls and reduce costs of the MLCC Members and Non Members by providing multinational solutions for the logistic support of their forces in operations and exercises.

The MLCC is a permanent point of contact for NATO Allies and Partners in order to share information and improve visibility of nations' capabilities and plans. The MLCC will assist nations to better understand NATO logistics requirements and provide NATO with better visibility of national logistics intentions and National Support Elements.

The MLCC coordinates and supports development of bilateral and multilateral cooperation, eliminates barriers to multinational contributions and increases confidence between nations and NATO in each other's support capabilities. The MLCC facilitates cooperation in national and multinational logistics training and practical exercises.

The MLCC organizes, coordinates and supports international meetings, workshops, seminars and conferences. It also organizes and coordinates support for developing national capabilities, facilitates accessibility of national educational and training programs, in order to enhance logistics standardization and interoperability.

### MLCC main objectives

- 1) Development of Multinational Logistics Capabilities (leading Smart Defence projects, development of V4 JLSG Core Staff Element, support to partner nations like support to Ukrainian army logistics reform)
- 2) Coordination of logistics education, training & exercises (since January 2015 Department Head for NATO Logistics Education & Training, organization of the logistics & standardization exercise Capable Logistician series (CL13 in Slovakia, CL15 in Hungary, CL19 in Poland), conduction of logistics courses like JLSG and RSOM courses, contribution to the Defence Education Enhancement Programme, etc.)
- 3) International logistics cooperation (Workshops, seminars, bilateral/multilateral programmes, Logistics Staff Assistance Visits, etc.)

### Summary

MLCC supports the implementation of collective logistics where maximum use of available synergies among all tasks and action brings significant savings for all involved nations and organizations. Exercise Capable Logistician series offers wide variety of opportunities for training of logistics experts and units, provides perfect testing ground for logistic standards and processes. Education and training program in connection with each of exercise Capable Logistician series significantly enhances capabilities of logistic units and experts and of NATO and Partners logistic organizations.

## LCC Partners

### Specialized Partners



### Endorsed by



## LCC Programme Committee



**GOL (GS) Jan HUSÁK**  
CL15 Exercise Director (EXDIR),  
Director of Multinational Logistics  
Coordination Centre (MLCC), CZE  
*Chairman*



**Mr. Daniel Koštoval, M. Sc.**  
Head of the Armaments and  
Acquisition Division, Ministry of  
Defence, CZE  
*Honorary Chairmen*



**MG Jaromír ZŮNA - Ph.D., M.Sc.**  
CZE MoD Support Division Director,  
CZE  
*Honorary Chairmen*



**BG Lubomír GACKO**  
Chief of Operations Support Staff,  
General Staff, SVK  
*Honorary Chairmen*



**BG László KAPOSVÁRI**  
Chief of the Logistics Directorate of  
General Staff, HUN  
*Honorary Chairmen*



**BG Dariusz ŁUKOWSKI - M. Sc.**  
Chief Inspectorate for Armed Forces  
Support, POL  
*Honorary Chairmen*

Programme



**WEDNESDAY, 17 OCTOBER 2018**

**PVA EXPO PRAHA, HALL 2**

10:00 - 13:15 **Registration**

12:45 - 13:15 **Poster Session**

**13:30 - 14:00 CONFERENCE OPENING**

13:30 - 14:00 **Introductory Remarks and Welcome Speech:**



**LTC Miloš SOPOLIGA**

Senior Staff Officer, Multinational Logistics Coordination Centre (MLCC), SVK



**MG Jaromír ZŮNA**

MoD Support Division Director, CZE



**COL (GS) Jan HUSÁK**

LCC Chairman; Director, Multinational Logistics Coordination Centre (MLCC), CZE



**14:00 - 16:00 DISCUSSION FORUM/PLENARY**

**Topics at Strategic Level:**

- Interoperability in Logistics Procedures and Technologies
- Perspective on the Future Direction of Logistics in the Wake of Current Global Security Situation
- View on Multinational Logistics, Roles, Trends and Challenges in Future Operations

**MODERATOR:**



**COL (Ret.) Ladislav CHALOUPSKÝ**

LCC Discussion Forum Moderator, CZE



**KEYNOTE SPEECH AND DISCUSSION OF THE TOPICS BY PANELISTS:**

14:00 - 14:35 **Keynote & Discussion**  
**NATO views on future development of logistics**



**Mr. Bruno CANTIN**

Directorate for Defence Policy and Capabilities, NATO International Staff, NATO



14:35 - 15:10 **Keynote & Discussion**  
**Standardization- Roadmap to Interoperability**



**Mr. Cornelious DORATON**

CL13, CL15 and CL19 Evaluation Analysis and Reporting Cell (EARC) Director, USA  
NATO International Standardization Program Representative, USA



15:10 - 15:25 **Leg Stretch**

15:25 - 16:00 **Keynote & Discussion**  
**Logistics for Future Forces - Spent less energy – Gain more power**



**Mrs. Susanne MICHAELIS**

Officer (Smart Energy and Environment) Energy Security Section, Emerging Security Challenges Division (ESCD), NATO



16:00 - 16:20 **Industry Capability Presentation – Dallmeier Electronic**  
**Video observation for huge territories – a big challenge for the security industry!**



**Karlheinz Johannes BIRSACK**

Director Sales Eastern Europe, Dallmeier electronic GmbH & Co.KG, DEU



16:20 - 16:30 **Chairman's LCC Closing Remarks**



**COL (GS) Jan HUSÁK**

LCC Chairman; Director, Multinational Logistics Coordination Centre (MLCC), CZE



**LIST OF THE PANELISTS IN ALPHABETICAL ORDER:**

	<b>Mr. Bruno CANTIN</b> Directorate for Defence Policy and Capabilities, NATO International Staff, NATO	 
	<b>Mr. Cornelious DORATON</b> CL13, CL15 and CL19 Evaluation Analysis and Reporting Cell (EARC) Director, USA NATO International Standardization Program Representative, USA	 
	<b>COL (GS) Pavel FOLTIN</b> Head of Department of Logistics in Faculty of Economics and Management University of Defence in Brno, CZE	 
	<b>COL (GS) Jan HUSÁK</b> LCC Chairman; Director, Multinational Logistics Coordination Centre (MLCC), CZE	
	<b>COL Pedro JOOREN</b> Head of Division Logistics Policy, European Union Military Staff, EU	 
	<b>Mr. Mehmet KINACI</b> Strategic Analyst, Strategic Plans and Policy Directorate, Strategic Analysis Branch, Allied Command Transformation, NATO – TBC	
	<b>Mrs. Susanne MICHAELIS</b> Officer (Smart Energy and Environment) Energy Security Section, Emerging Security Challenges Division (ESCD), NATO	 
	<b>Mr. Thomas L. NIELSEN</b> Senior Technician, NATO Support and Procurement Agency (NSPA), NATO	
	<b>Mr. Willem ZUIDEMA</b> United Nations Global Service Centre, UN	 
	<b>MG Jaromír ZŮNA</b> MoD Support Division Director, CZE	


**THURSDAY, 18 OCTOBER 2018**

**PVA EXPO PRAHA, HALL 2**
**08:30 - 09:15 Registration**
**09:00 - 09:15 Poster Session**
**09:30 - 16:00 CONFERENCE LCC**
**Moderated by:**

	<b>LTC Miloš SOPOLIGA</b> Senior Staff Officer, Multinational Logistics Coordination Centre (MLCC), SVK	
	<b>COL (GS) Jan HUSÁK</b> – LCC Chairman; Director, Multinational Logistics Coordination Centre (MLCC), CZE – <b>Keynote Speech</b>	
<b>09:45 - 11:55 Thematic Session</b>		
<b>09:45 - 10:15 Keynote Speech</b>		
<b>The Czech Approach to Defense Logistics</b>		
	<b>MG Jaromír ZŮNA</b> MoD Support Division Director, CZE	
<b>10:15 - 10:45 Strategic Logistics Foresight Analysis 2017/Framework for Future Alliance Operations 2018 documents</b>		
	<b>Mr. Mehmet KINACI</b> Strategic Analyst, Strategic Plans and Policy Directorate, Strategic Analysis Branch, Allied Command Transformation, NATO	
<b>10:45 - 11:15 Standardization- Roadmap to Interoperability</b>		

	 <b>Mr. Cornelious DORATON</b> CL13, CL15 and CL19 Evaluation Analysis and Reporting Cell (EARC) Director, USA NATO International Standardization Program Representative, USA	
11:15 - 11:35	<b>Industry Capability Presentation – ENVI-PUR</b> <b>AMAYA – Multipurpose Drinking Water Treatment Technology</b>	
	 <b>Mrs. Petra HRUŠKOVÁ</b> Technologist, Water Treatment Specialist, ENVI-PUR Ltd., CZE	
	 <b>Mr. Daniel VILÍM</b> Head of Technology Department, ENVI-PUR Ltd., CZE	
11:35 - 11:55	<b>Industry Capability Presentation – SETOLITE</b> <b>SETOLITE Lichttechnik GmbH</b>	
12:00 - 13:00	<b>Lunch &amp; Networking</b>	
12:30 - 12:45	<b>Poster Session</b>	
13:00 - 16:25	<b>Thematic Session</b>	
13:00 - 13:30	<b>Innovating the EUMS Logistic landscape</b>	
	 <b>COL Pedro JOOREN</b> Head of Division Logistics Policy, European Union Military Staff, EU	
13:30 - 14:00	<b>Supply Chain management in UN Peacekeeping</b>	
	 <b>Mr. Willem ZUIDEMA</b> United Nations Global Service Centre, UN	
14:00 - 14:30	<b>Smart Defence NATO Project “Deployable Air Activation Modules” (DAAM) - Logistics perspective</b>	
	 <b>LTC Angelo MONTINARO</b> ITAF General Staff, ITA	
14:30 - 15:00	<b>Coffee Break &amp; Networking</b>	
15:00 - 15:30	<b>NATO Military Advice on Energy Efficiency and Standardization: Best Practices and Lessons Identified</b>	
	 <b>COL Romualdas PETKEVIČIUS</b> Director of ENSEC COE, NATO	
15:30 - 16:00	<b>Integrated Camp Utility Technologies – Tools to better understand and better predict power and energy requirements of deployed camps</b>	
	 <b>Mr. Martin KEGEL</b> Research Engineer, CanmetENERGY, Natural Resources Canada, CAN	
16:00 - 16:20	<b>Industry Capability Presentation – INTRACOM Defense Electronics</b> <b>Optimizing Manoeuvre Power Logistics through Mobile Energy Hubs</b>	
	 <b>Mr. Theodoros DIONYSOPOULOS</b> Director, Hybrid Power Systems, GRC	
16:20 - 16:25	<b>Chairman's LCC Closing Remarks</b>	
	 <b>COL (GS) Jan HUSÁK</b> LCC Chairman; Director, Multinational Logistics Coordination Centre (MLCC), CZE	
16:15 - 17:00	<b>SOCIAL EVENT FOR SPEAKERS, Leonardo Helicopters VIP Lounge, Hall 4</b>	



## Logistics Agency

The Logistics Agency is a specialized authority directly subordinated to the Director of Support Section of the Ministry of Defense for the management of preparation, organization and implementation of versatile support for the Defense Department of the Czech Republic in operations on its territory and abroad.

It is a conceptual and executive element of the Defense Department in order to secure logistical support with the department wide application, to secure tangible and intangible fixed assets and stocks, including evidence of equity groups in its scope.

Provides management, planning and coordination of military transport and movement in the territory and outside the territory of the Czech Republic and transport of allied armed forces on our territory. Issues binding opinions and representations of the Department of Defence in individual areas of logistic support.

Realizes transportation and services for NATO and allied forces within the Czech Republic through Host Nation Support.

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**LTC Jan Mazal, Ph.D.**  
Doctrine Education and Training  
Branch Chief, NATO Modelling and  
Simulation COE, NATO  
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**Mr. Milan Rollo, Ph.D.**  
Researcher, Czech Technical  
University, CZE  
*Vice-chairman*



**Mr. Daniel Kořtoval, M.Sc.**  
Head of the Armaments and  
Acquisition Division, Ministry of  
Defence, CZE  
*Honorary Chairman*

## Programme



**WEDNESDAY, 17 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2**

10:00 - 13:15 **Registration**

12:45 - 13:15 **Poster Sessions**

**13:30 - 14:00 CONFERENCE OPENING**

**INTRODUCTORY REMARKS:**



**Mr. Jakub ŽELEZNÝ**  
Moderator, Czech Television, CZE



**KEYNOTE SPEECH:**



**GEN Petr PAVEL**  
Former Chairman of the NATO Military Committee, CZE



**Mr. Zdeněk JELÍNEK**  
Director of the Civil Aviation Department, Ministry of Transport, CZE



**Mr. Thomas KILLION**  
Chief Scientist, Science and Technology Organization, NATO



**LTC Jan MAZAL**  
Chairman MARS Conference; Doctrine Education and Training Branch Chief,  
NATO Modeling & Simulation Centre of Excellence, NATO



**14:00 - 16:00 DISCUSSION FORUM/PLENARY**

**Topics at Strategic Level:**

- UAVs/Drones – Potential of the Future; Civil - Military - Security Forces Cooperation
- Artificial Intelligence – Pros & Cons
- Regulatory Processes – Implementation, Effectivity, Enforcement
- Ethical, Moral, and Legal Aspects of UAVs/Drones Usage

**MODERATOR:**



**Mr. Jakub ŽELEZNÝ**  
Moderator, Czech Television, CZE



**PANELISTS: (in alphabetical order)**



**Prof. Ronald C. ARKIN**  
Prof. Ronald C. ARKIN



**Prof. Agostino BRUZZONE**  
President of Simulation Team & MIPET Full Professor, DIME, University of Genova, ITA



**Mr. Thomas C. IRWIN**  
Executive Director, Joint Training Joint Force Development, Joint Chiefs of Staff, Joint Staff  
J7, US Department of Defense , USA



**Mr. Thomas KILLION**  
Chief Scientist, Science and Technology Organization, NATO



**Mr. Jan KLAS**  
Director General, Air Navigation Services of the Czech Republic, CZE



	<b>Mr. Zdeněk KUČERA</b> Head of the Dispute Resolution and TMT practices at Kinstellar's Prague office, CZE	
	<b>NAVY CAPT Vincenzo MILANO</b> Director NATO Modeling & Simulation Centre of Excellence, NATO	 
	<b>Mr. Kevin MILLS</b> Associate Director of Robotics for Tank Automotive Research Development and Engineering Center (TARDEC), USA	 
	<b>GEN Petr PAVEL</b> Former Chairman of the NATO Military Committee, CZE	
	<b>Prof. Michal PĚCHOUČEK</b> Department of Computer Science, Czech Technical University in Prague, CZE	 
	<b>CDR Joe STRASSBERGER</b> OF-4 US Navy, Concept Development Branch, NATO SACT, NATO	 



**THURSDAY, 18 OCTOBER 2018**

 **PVA EXPO PRAHA, HALL 2**

08:30 - 09:15 **Registration**

09:00 - 09:15 **Poster Sessions**

**09:30 - 12:00 MARS CONFERENCE**

09:30 - 09:50 **INTRODUCTORY REMARKS:**



**LTC Jan MAZAL**  
Chairman MARS Conference; Doctrine Education and Training Branch Chief,  
NATO Modeling & Simulation Centre of Excellence, NATO



**Mr. Milan ROLLO**  
Researcher; Vice-chairman MARS Conference, Czech Technical University in Prague, CZE



09:50 - 10:10 **Autonomy and AI: Key Enablers for future NATO Capabilities**



**Mr. Thomas KILLION**  
Chief Scientist, Science and Technology Organization, NATO



10:10 - 10:30 **Drones and Digital Airspace: Opportunities and Challenges from Perspective of Ministry of Transport**



**Mr. Tomáš PUSTINA**  
Head of Unit at the Civil Aviation Department, Ministry of Transport, CZE



10:30 - 11:00 **US DoD Visions/Strategy in Autonomous Systems and Robotic implementation in Future Warfare/ US Army Development**



**Mr. Thomas C. IRWIN**  
Executive Director, Joint Training Joint Force Development, Joint Chiefs of Staff, Joint  
Staff J7, US Department of Defense, USA



11:00 - 11:30 **Multi-domain Integrative Architectures for multirobot teams: Land, Sea, Air and now Subterranean**



**Prof. Ronald C. ARKIN**  
Regents' Professor & Director of the Mobile Robot Laboratory, Associate Dean for  
Research & Space Planning, College of Computing, Georgia Institute of Technology, USA



11:30 - 12:00 **Digital Dust**



**BG (Ret.) Ofer TSAFRIR**  
Maneuvering Program Manager, Bagira Systems, ISR



12:00 - 13:00	Lunch & Networking		
12:45 - 13:00	Poster Sessions		
13:00 - 16:00	<b>MARS CONFERENCE</b>		
13:00 - 13:20	<b>NATO ACT Autonomy Program Overview and Strategy/Vision – TBD</b>		
	 <b>CDR Joe STRASSBERGER</b> OF-4 US Navy, Concept Development Branch, NATO SACT, NATO		
13:20 - 13:40	<b>Looking ahead for Beyond Line of Sight</b>		
	 <b>Mr. Christoph SULZBACHNER</b> Senior Engineer, Austrian Institute of Technology, AUT		
13:40 - 14:00	<b>The US Army's Approach to Unmanned Mobility</b>		
	 <b>Mr. Kevin MILLS</b> Associate Director of Robotics, US Army Training and Doctrine Command (TARDEC), USA		
14:00 - 14:20	<b>Drones – knowledge and experience of their use under the conditions of the Czech Fire Brigade</b>		
	 <b>COL Ondřej SUCHÝ</b> Technical Institute of Fire Protection in Prague, CZE		
14:20 - 14:40	Coffee Break & Networking		
14:40 - 15:00	<b>GOLD Partner presentation – Military Technical Institute Perspective Unmanned VTU s. p. Systems for ACR</b>		
	 <b>Mr. Jiří NOHÝL</b> Researcher, Military Technical Institute, CZE		
15:00 - 15:20	<b>Eagle.one – Autonomous drone hunter using onboard AI for safe elimination of unauthorized aerial systems</b>		
	 <b>Mr. Martin SASKA</b> Senior researcher, MRS, Czech Technical University in Prague, CZE		
15:20 - 15:40	<b>Future Imperfect - Conundrum of Suddenly Human and Bio-Convergent: What Will the Future Army Look Like in 2050? Cybersecurity and Governance Considerations for the Use of Military Advanced Robotic Systems in Smart Environments</b>		
	 <b>Ms. Ina WANCA</b> Professor at NYU, and John Jay College of Criminal Justice. Founder of AI Governance, USA		
15:40 - 16:00	<b>MARS Summary and Conference Closing Remarks</b>		
	 <b>LTC Jan MAZAL</b> Chairman MARS Conference; Doctrine Education and Training Branch Chief, NATO Modeling & Simulation Centre of Excellence, NATO	  	
	 <b>Mr. Milan ROLLO</b> Researcher; Vice-chairman MARS Conference, Czech Technical University in Prague, CZE	 	
16:15 - 17:00	<b>SOCIAL EVENT FOR SPEAKERS, Leonardo Helicopters VIP Lounge, Hall 4</b>		



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- Multi-robot systems (MRS),
- Phoenix AIR U-15 AFL (Advanced Flying Laboratory),
- Eagle.one: Autonomous drone hunter.

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**CONTACTS**



Klára Havlíková, CTU in Prague  
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## EXPERT EVENTS Posters Overview



17 Oct 12.45 - 13.15

18 Oct 08.45 - 09.15

18 Oct 12.30 - 12.45

19 Oct 08.45 - 09.15

**PVA EXPO PRAHA, HALL 2**  
**Posters Sector**

### From BIOMEDAC to BIOMED P: 20 Years of biological expertise

Dr **Christian DUGAUQUIER**, Médecin Commandant, Belgian Defense

### Mechanism of Keratinocyte Cytotoxicity by Arsenic Used as Chemical Warfare Agent: Thiol Supplements as Potential Novel Antidotes

Prof. **Jin-Ho CHUNG** – College of Pharmacy, Seoul National University

### Military to Military (M2M) Engagement in Hybrid War threats with evidenced based policy. The NATO Lessons Learned (LL) Process supporting stability operations, deterrence and mutual defense

Mr. **John Quinn**, MD, MPH, PhD, Paramedic - Principal Investigator, Prague Center for Global Health

Co-author: **Olga Romaniuk** - Lead Researcher, Medical ATO Report Ukraine, Office of Defense Coordination (ODC), US Department of Defense

Co-author: **Patrick Chellew** - Lead Investigator and Medical Consultant, Disaster and Pre-Hospital Medicine Specialist

### Physiological Data Monitoring of Air Forces Members During Training

Mr. **Patrik KUTÍLEK** Dipl. Eng., Ph.D. - Docent, Czech Technical University in Prague, Faculty of Biomedical Engineering

Co-author: **Mr. Jří KAČER** - Faculty of Military Technology, University of Defence

Co-author: **Mr. Martin STEHLÍK** - Sports Research Institute of Czech Armed Forces

Co-author: **Mr. Václav KŘIVÁNEK** - Faculty of Military Technology, University of Defence

Co-author: **Mr. Radek DOSKOČIL** - Faculty of Military Technology, University of Defence

Co-author: **Mr. Pavel SMRČKA** - Faculty of Biomedical Engineering, Czech Technical University Prague

Co-author: **Mr. Jan FRALÍK** - Faculty of Military Technology, University of Defence

Co-author: **Mrs. Kristýna SLAJSOVÁ** - Sports Research Institute of Czech Armed Forces

### The importance of monitoring postural stability in the training of military professionals

Mr. **Patrik KUTÍLEK** Dipl. Eng., Ph.D. - Docent, Czech Technical University in Prague, Faculty of Biomedical Engineering

Co-author: **Mrs. Monika BACÍKOVÁ** - Sports Research Institute of Czech Armed Forces

Co-author: **Mr. Petr VOLF** - Faculty of Biomedical Engineering, Czech Technical University in Prague

Co-author: **Mr. Martin PĚKNÝ** - Sports Research Institute of Czech Armed Forces

Co-author: **Mr. Jan HEJDA** - Faculty of Biomedical Engineering, Czech Technical University in Prague

Co-author: **Mr. Čestmír OBERMAN** - Sports Research Institute of Czech Armed Forces

### Extracorporeal membranous oxygenation therapy for chemical warfare agent and smoke intoxication

Mr. **David MACKŮ M.D.** - Medical Doctor and Research Fellow, Department of Biomedical Engineering, Na Homolce Hospital, CZE

Co-author: **Assoc. Prof. Vilém ROHN CSc.**, MD - Chief, Charles University Teaching Hospital, CZE

Co-author: **Mr. Pavel HEDVIČÁK** - Registered Nurse and Clinical Perfusionist, Motol University Hospital, Department of Cardiovascular Surgery, CZE

### Military Medical Practice in Humanitarian Disaster: Lessons Learned from a Damage Control Surgery and Restitution Role II+ Facility in the Mosul Area of Operations

**Mr. John Quinn, MD, MPH, PhD, Paramedic** - Principal Investigator, Prague Center for Global Health

Co-author: **Mr. Patrick Chellew** - Lead Investigator and Medical Consultant, Disaster and Pre-Hospital Medicine Specialist

Co-author: **Mrs. Olga Romaniuk** - Lead Researcher, Medical ATO Report Ukraine, Office of Defense Coordination (ODC), US Department of Defense

### Conflict and disaster medicine: the state of military medicine in Ukraine

**Mr. John Quinn, MD, MPH, PhD, Paramedic** - Principal Investigator, Prague Center for Global Health

Co-author: **Mr. Patrick Chellew** - Lead Investigator and Medical Consultant, Disaster and Pre-Hospital Medicine Specialist

Co-author: **Mrs. Olga Romaniuk** - Lead Researcher, Medical ATO Report Ukraine, Office of Defense Coordination (ODC), US Department of Defense

### Conflict and disaster medicine: the state of military medicine in Ukraine

**Katarzyna Kośla, PhD** - Adjunct, Research and Development Department, Institute of Security Technologies MORATEX, POL

Co-author: **Ms. Agnieszka Kucharska Jastrzębek, PhD** - Deputy head of R&D department, Institute of Security Technologies MORATEX, POL

### Importance of ICTs in the control of information flows for planning demand and materials procurement logistics in highly un-standardized aircraft fleets

**Captain Julio Rodríguez** - Colombian Air Force Officer, Industrial Engineer, Master in Aeronautic Logistics, COL

**Second Lieutenant Jaimy Buitrago** - Colombian Air Force Officer, Aeronautic Administrator, Student for Master in Aeronautic Logistics, COL

Co-author: **Alvaro Moncada** - Systems and Computing Engineer, MBA, PhD. in Management and Public Politics, COL

### Vector Field RBF Approximation: Multilevel & Critical Points Reduction

**Mr. Michal Šmolík, Ph.D.** - Department of Computer Science and Engineering, Faculty of Applied Sciences, University of West Bohemia in Pilsen, CZE

Co-author: **prof. Václav Skála** - Faculty of Applied Sciences, University of West Bohemia in Pilsen, CZE

Co-author: **Mrs. Zuzana Majdišová** - Department of Computer Science and Engineering, Faculty of Applied Sciences, University of West Bohemia in Pilsen, CZE

### Geographic Point Clouds: RBF Approximation & Compression

**Mrs. Zuzana Majdišová** - Department of Computer Science and Engineering, Faculty of Applied Sciences, University of West Bohemia in Pilsen, CZE

Co-author: **prof. Václav Skála** - Faculty of Applied Sciences, University of West Bohemia in Pilsen, CZE

Co-author: **Mr. Michal Šmolík, Ph.D.** - Department of Computer Science and Engineering, Faculty of Applied Sciences, University of West Bohemia in Pilsen, CZE

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**Mr. Josef PROKEŠ**  
Office for Personal Data Protection of the Czech Republic  
*Honorary Chairmen*



**Mr. Miroslav TŮMA**  
Director, Department of Cyber Security and ICT Coordination, Ministry of the Interior of the Czech Republic  
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## Programme



**WEDNESDAY, 17 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2, ROOM 5**  
**Expert Programme Centre**

### 13:00-14:45 VIP section

#### MODERATOR:



**Mr. Petr JIRÁSEK**  
Charmain, AFCEA Czech Cyber Security Working Group



#### 13:00 Welcome



**Mr. Petr JIRÁSEK**  
Charmain, AFCEA Czech Cyber Security Working Group



#### 13:05 Opening speech



**Mr. Dušan NAVRÁTIL**  
Director, NCISA, Czech Republic



#### 13:20 How 5G technology will affect the world



**Mr. Terry HALVORSEN**  
Exec VP / CIO, Samsung Electronics, USA



#### 13:50 Evolving role of cyber defence



**Mr. Jan SEIDL**  
Senior Manager, Cyber Security and Risk Advisory, Deloitte, Czech Republic



#### 14:00 The role of the police of the Czech Republic in the fight against cybercrime



**Capt. Lukáš VILÍM**  
National Organized Crime Agency, Cyber Crime Command, Police, Czech Republic



#### 14:10 Discussion, Q&A

#### 14:45 - 15:30 Break

### 15:30-17:00 BIOMETRICS

#### MODERATOR:



**Mr. Jan DIENSTBIER**  
Vice-president, ČIMIB, Czech Republic



#### 15:30 Aspects of biometrics system



**Mr. Roman CINKAIS**  
Head of Consulting, Diebold Nixdorf, Czech Republic



#### 15:45 Digitalizing human odor traces



**Prof. RNDr. Štěpán Urban, CSc.**  
Head of the Department of Analytical Chemistry, ICT Prague



#### 16:15 Electronic signatures and biometrics



**Mr. Petr DOLEJŠÍ**  
Senior Business Consultant, SEFIRA Ltd., Czech Republic



#### 16:45 Discussion, Q&A

 **THURSDAY, 18 OCTOBER 2018**

 **PVA EXPO PRAHA, HALL 2, ROOM 5**  
**Expert Programme Centre**

<b>9:45-11:30</b>		<b>BIOMETRICS &amp; CRYPTOGRAPHY</b>	
<b>MODERATOR:</b>			
		<b>Jan DIENSTBIER</b> Vice-president, ČIMIB, Czech Republic	
9:45	<b>2<sup>nd</sup> Day Conference - Opening</b>		
		<b>Mr. Petr JIRÁSEK</b> Charmain, AFCEA Czech Cyber Security Working Group	
9:55	<b>Quantum Computers for People Working in Information Security</b>		
		<b>Mr. Bohuslav RUDOLF</b> NCISA, Czech Republic	
10:20	<b>Quantum Safe Technologies: novel solutions and paradigms</b>		
		<b>Prof. Fabio Antonio BOVINO</b> Docent „Optics & Quantum Information“, Univezita SAPIENZA, Rome; Chief Scientist at Quantum Tehnologies Lab, Italy	
10:50	<b>Security challenges in organizations and future trends in crypto</b>		
		<b>Prof. Bernhard ESSLINGER</b> Krypto Expert, Germany	
<b>11:20</b>	<b>Discussion, Q&amp;A</b>		
<b>11:30 - 12:30</b>	<b>Break</b>		
<b>12:30 - 14:15</b>		<b>Cryptography and personal identity</b>	
<b>MODERATOR:</b>			
		<b>Mr. Karel MACEK</b> Head of Cyber Security Department, Ministry of Labor and Social Affairs, Czech Republic	
12:30	<b>Biometrics protecting privacy</b>		
		<b>Mr. Avi ROSE</b> Diebold Nixdorf, Czech Republic	
		<b>Roman CINKAIS</b> Diebold Nixdorf, Czech Republic	
13:00	<b>Modern Cryptography and Digital Identity Protection</b>		
		<b>Assoc. Prof. Jan HAJNÝ</b> Advanced Cybersecurity, Brno University of Technology, Czech Republic	
13:30	<b>Cross between cryptology and PKI between the commercial sphere and the state administration</b>		
		<b>Mr. Robert BĚLOVSKÝ</b> Expert, Czech Republic	
<b>14:00</b>	<b>Discussion, Q&amp;A</b>		
<b>14:15 - 15:00</b>	<b>Break</b>		

15:00-17:00 Cyber Security - Trends and Challenges	
<b>MODERATOR:</b>	
	<b>Asoc. Prof. Zdeněk LOKAJ</b> Faculty of Transportation Sciences, Czech Technical University, Czech Republic
15:00	<b>Network Forensics – Fidelis approach in live demo show</b>
	<b>Mr. Nick COPELAND</b> Senior Systems Engineer, Fidelis CyberSecurity, United Kingdom
15:30	<b>Current challenges in cyber security - what we can expect?</b>
	<b>Mr. Michal ZEDNÍČEK</b> Representative, AFCEA Czech Cyber Security Working Group, Czech Republic
15:50	<b>How to build a SOC - practical experiences</b>
	<b>Mr. Tomáš PŘIBYL</b> Member, AFCEA Czech Cyber Security Working Group, Czech Republic
16:20	<b>Discussion, Q&amp;A</b>



**FRIDAY, 19 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2, ROOM 5**  
**Expert Programme Centre**

10:00-12:00 Modern trends in speech recognition by voice	
<b>MODERATOR:</b>	
	<b>Mr. Jaroslav PEJČOCH</b> Vice-Chairman, AFCEA Czech Cyber Security Working Group, Czech Republic
10:00	<b>Math and algorithms behind speaker verification - from Gaussian models to neural nets</b>
	<b>Mr. Pavel MATĚJKA</b> Brno University of Technology, Czech Republic
10:30	<b>Revolution in Accuracy and Speed of Voice Biometrics</b>
	<b>Mr. Radim KUDLA</b> Head of Consulting and Support, Phonexia, Czech Republic
11:00	
	<b>Mr. Miroslav NEČAS</b> Business Development Manager, TOVEK, Czech Republic
11:30	<b>Discussion, Q&amp;A</b>

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Programme



**WEDNESDAY, 17 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2  
Expert Programme Centre**

**10:30-16:00 SMART CYBER DEFENCE WORKSHOPS**

10:30 - 11:30  
ROOM 1

**Visualisation of IT assets communications, integrated network management and controlled access to the network, as necessary parts in the strategy of cyber defence**



**Mr. Jindřich ŠAVEL**  
Novicom / IN CZECH LANGUAGE /



10:30 - 11:30  
ROOM 2

**Web portals and applications as gateway to sensitive data-how to protect them against attackers?**



**Mr. Filip KOLÁŘ**  
F5 Networks



11:30 - 13:00

**AKIS and AFCEA Czech Chapter  
Engagement of Active Reserve in cyber security**

13:00 - 14:00

**Automation in the struggle against modern cyber threats**



**Mr. Radim PAČL**  
Palo Alto Networks



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		<b>Mr. Tibor TVARDZIK</b> Palo Alto Networks	
14:00 - 15:00 ROOM 1	<b>ARUBA IntroSpect or what firewall does not catch and SIEM is not able to evaluate</b>		
		<b>Mr. Jakub TIKOVSKÝ</b> Aruba Networks	
14:00 - 15:00 ROOM 2	<b>Current threats in cyber security, including non-cyber-based threats</b>		
		<b>Mr. Martin Uher</b> CyberGym Europe	
15:00 - 16:00 ROOM 1	<b>System of automatic detection and response as remedy for operational ailments of security departments and SOC</b>		
		<b>Mr. Jan RYDVAL</b> Fidelis CyberSecurity	
		<b>Mr. Lukáš PŘÍŠŤ</b> net.pointers s.r.o.	
15:00 - 16:00 ROOM 2	<b>FORCEPOINT Dynamic Data Protection</b>		
		<b>Mr. Vladimír ŠPIČKA</b> CyberGym Europe	
		<b>Mr. Miroslav BAJGAR</b> Forcepoint	



**THURSDAY, 18 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 2  
Expert Programme Centre**

**10:00-16:00 SMART CYBER DEFENCE WORKSHOPS**

10:00 - 11:00 ROOM 1	<b>System of automatic detection and response as remedy for operational ailments of security departments and SOC</b>		
		<b>Mr. Jan RYDVAL</b> Fidelis CyberSecurity	
		<b>Mr. Lukáš PŘÍŠŤ</b> net.pointers s.r.o.	
10:00 - 11:00 ROOM 2	<b>Security aspects of emerging blockchain technologies</b>		
		<b>Mr. Jakub ŘÍDEL</b> Deloitte	
11:00 - 12:00 ROOM 1	<b>Visualisation of IT assets communications, integrated network management and controlled access to the network, as necessary parts in the strategy of cyber defence</b>		
		<b>Mr. Jindřich ŠAVEL</b> Novicom	

11:00 - 12:00 ROOM 2	<b>ARUBA IntroSpect or what firewall does not catch and SIEM is not able to evaluate</b>	 <b>Mr. Jakub TIKOVSKÝ</b> Aruba Networks	
12:00 - 13:00	<b>Analysis of recent security incidents</b>	 <b>Mr. Peter KOVALČÍK</b> Check Point	
13:00 - 14:00	<b>FORCEPOINT Dynamic Data Protection</b>	 <b>Mr. Vladimír ŠPIČKA</b> CyberGym Europe	
		 <b>Mr. Miroslav BAJGAR</b> Forcepoint	
14:00 - 15:00	<b>CrypTool - A wide-spread and free tool to help raising crypto awareness and understanding</b>	 <b>Prof. Bernhard ESSLINGER</b>	
15:00 - 16:00	<b>Automation in the struggle against modern cyber threats</b>	 <b>Mr. Radim PAČL</b> Palo Alto Networks	
		 <b>Mr. Tibor TVARDZIK</b> Palo Alto Networks	




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## Programme



**WEDNESDAY, 17 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 4  
CYBER PAVILION**

### 9:30-17:00 LIVE HACKING ZONE

9:30 **Opening for hacking competition**  
AFCEA

11:00 - 11:20 **Expert Presentations Session**  
AFCEA, MoI, University of Defense, and others

11:20 - 11:30 **System of automatic detection and reaction in monitoring the traffic in hacking zone**



**Mr. Jan RYDVAL**  
Fidelis Cyber Security



11:30 - 11:40 **SSL Strip Attack**



**Mr. Jakub LABANT**  
Deloitte



14:00 - 14:20 **Expert Presentations Session**  
AFCEA, MoI, University of Defense, and others

14:20 - 14:25 **Web portals and applications as gateway to sensitive data-how to protect them against participants?**



**Mr. Radovan GIBALA**  
F5 Networks



14:25 - 14:30 **Cyber Challenge Hacking Game (Live): Become an attacker or defender for a while**



**Mr. Peter KOVALČÍK**  
Check Point



16:00 **Closing for hacking competition**  
AFCEA

16:00 - 16:20 **Expert Presentations Session**  
AFCEA, MoI, University of Defense, and others

16:20 - 16:25 **Android is a good servant but a bad master**



**Mr. Tomáš HEJLÍK**  
QNI Control and CyberGym Europe



16:25 - 16:30 **Firewall evasions: how to bypass nearly any firewall protection**



**Mr. Miroslav BAJGAR**  
Forcepoint



16:30 **Results announcement of hacking competition**  
AFCEA

 **THURSDAY, 18 OCTOBER 2018**

 **PVA EXPO PRAHA, HALL 4  
CYBER PAVILION**

9:30-17:00		LIVE HACKING ZONE	
9:30	<b>Opening for hacking competition</b> AFCEA		
11:00 - 11:20	<b>Expert Presentations Session</b> AFCEA, Mol, University of Defense, and others		
11:20 - 11:30	<b>System of automatic detection and reaction in monitoring the traffic in hacking zone</b>		
	 <b>Mr. Jan RYDVAL</b> Fidelis Cyber Security		
11:30 - 11:40	<b>SSL Strip Attack</b>		
	 <b>Mr. Jakub LABANT</b> Deloitte		
14:00 - 14:20	<b>Expert Presentations Session</b> AFCEA, Mol, University of Defense, and others		
16:00	<b>Closing for hacking competition</b> AFCEA		
16:00 - 16:20	<b>Expert Presentations Session</b> AFCEA, Mol, University of Defense, and others		
16:30	<b>Results announcement of hacking competition</b> AFCEA		



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LIVE HACKING



**FRIDAY, 19 OCTOBER 2018**



**PVA EXPO PRAHA, HALL 4  
CYBER PAVILION**

**9:00-16:00 LIVE HACKING ZONE**

9:30	<b>Opening for hacking competition</b> AFCEA
11:00 - 11:20	<b>Expert Presentations Session</b> AFCEA, Mol, University of Defense, and others
11:20 - 11:30	<b>System of automatic detection and reaction in monitoring the traffic in hacking zone</b>
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15:30	<b>Results announcement of hacking competition</b> AFCEA

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