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EDITORIAL

Dear readers,

the first issue of this year, full of news and pieces of interesting information from defence and security companies, has just reached you. You will read about international successes of Czech companies in a report describing this year's official participation of the Czech Republic at the IDEX international defence and homeland security fair in Abu Dhabi.

For starters, we have prepared two interviews with top state administration representatives, namely the new Police President, Colonel Jan Švejdar, on main priorities of the Police of the Czech Republic, and the First Deputy Chief of the General Staff of the Czech Armed Forces, Major General Jaromír Zůna, who comments on the current state, plans, and priorities of the Czech Armed Forces.

We are now less than two months from the opening of the 15th IDET fair in Brno, which will display military equipment on a record-sized area this year. Our publishing house is again the exclusive media partner of the fair for the Czech Republic and, as usual, we are going to publish the special bilingual publication, IDET NEWS, for the occasion, which you can learn more about on page 37.

We are looking forward to meeting you at IDET!



Šárka Cook, Editor-in-chief



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Interview with the new Police President, Colonel Jan Švejdar

Jan Švejdar was appointed Police President in the beginning of December 2018; prior to that, he had served as Police Director in the Region of Pardubice. He has been a policeman since 1987.

Mr. President, could you describe your career in the Police of the Czech Republic from the very beginning? Was it always your dream to become a policeman?

I joined the police immediately after finishing grammar school in Trutnov. It is true I had been employed for about six months, but I became a full-fledged policeman under a civil service contract in March 1987. I have been through all essential police work and almost all police management levels, from district department to regional directorate, and also at the Police Presidium, where I had already worked in the position of the Director of the Criminal Police and Investigation Service before I was appointed Police President.

However, I initially dreamed about becoming a military pilot. I can no longer remember how it happened, but the selection process established that I would not fit into an aircraft. A pilot must have a standard physique, and I, with my two meters, do not fit into that category. I thus opted for Plan B which we had been offered at school, namely to join the Police. And I liked it. I do not regret.

What are your principal priorities and what the Police of the Czech Republic should focus on today?

My priorities are traffic and combatting drugs, this still holds true. But I have added another essential issue, a renovation of the police's fleet of vehicles, because they are in a very poor condition indeed. All of us will pay a great deal of attention to it, because the vehicles are in a very bad state, with seventy percent of them ripe for replacement. Now we are looking for options, but it will not be easy. The replacement must be accomplished as soon as possible.

Can you disclose your other priorities and plans?

Well, I would rather elaborate on those mentioned above. Drugs and traffic, two things I really intend to focus on. The two issues are intermingled and also combine prevention and repression. We start at schools, where we implement and develop our prevention campaigns, which I regard as extremely important. However, I have been emphasizing, from the very beginning, the dangerous and increasingly serious trend of drivers driving under the influence of addictive substances. When we look at the numbers, that of drivers driving under the influence of addictive substances is equal to or even higher than that of driving under the influence of alcohol. We can discuss which of the two is more dangerous, but my opinion is that drugs are illegal and as such have no place on roads. We will therefore concentrate on the "road work" and on strengthening preventive campaigns. Here I feel a need for more capable and creative people who will develop and implement them. We will have to find them and train them, and we will also have to step up the frequency of visits to schools, offices, and other institutions which we need to cooperate with in this respect.





According to surveys, the Czech Republic ranks among the safest countries in the world. Are you satisfied with the present state of affairs?

It depends on the area. If we solved a hundred percent of all criminal cases, we could be satisfied, but we cannot achieve this, and will never be able to. It is true that the number of criminal acts has been dropping, or so it seems at the first sight, but investigating and solving today's cases is increasingly demanding. Moreover, crime is evolving; for example, burglaries and car thefts have been going down, but not everywhere and definitely not generally. It is therefore necessary to quickly respond

to changes in the society, trends, etc. We must be able to foresee and predict what is going to happen and how we are going to react. Cybercrime is a very topical issue today, and many criminal acts are being committed in this area.

Shortly after taking up your job, you attended a meeting of Police Chiefs of the Salzburg Forum. What was on the agenda?

The main topic of the meeting was the impact of regulations of the European Parliament and the Council concerning the interoperability of police information systems. The bills referred to above react to inadequate interconnec-

tion of European police information systems which were initially built as strictly separate entities, and thus fail to contribute as much as they actually could to police work. The police chiefs of the Salzburg Forum exchanged information on today's usage of national, European, and global information systems, agreeing that quick and efficient exchange of information is one of the key tools of ensuring security and safety of EU citizens and an effective means of combatting terrorism and illegal migration.

Mr. President, thank you for the interview and I wish you many successes.
Šárka Cook



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As of January 1, 2019, Major General Mgr. Dipl. Eng. Jaromír Zůna, MSc., Ph.D., was appointed the First Deputy Chief of the General Staff of the Army of the Czech Republic.

In spite of his busy schedule, he gave us an interview on the current state, plans, goals, and priorities of the Army of the Czech Republic.



General, it has been exactly two years since you gave us an interview. At that time, you were the Director of the Support Division of the Ministry of Defence of the Czech Republic. Could you give us a nutshell assessment of the fulfilment of plans and objectives in the recent period?

I have to say I am satisfied, although these two years were far from easy. Characteristic features of elements such as logistics, military medicine, and communication and information systems include long-term nature, planning, and accuracy of activities and actions related not only to day-to-day fulfilment of tasks, but also to the orientation of their development. These elements also typically use highly skilled personnel. A chef hat syndrome – I cannot cook and I have never been in a kitchen, but it is what I am wearing now which is why things are

going to be as I say; there is neither a vision nor a road thereto which could succeed at the Support Division of the Ministry of Defence. Related processes are professionally demanding and their common denominator is realism. Scenarios will not feed anybody and an operational leap is not a solution of day-to-day support of activities of the army. Practically nothing can be accomplished without money, material and service flows must be continuous, the set of skills possessed by support personnel must be maintained, and their potential must be developed irrespective of the position they occupy in the structure of the Army of the Czech Republic. The support system cannot afford to set unattainable goals, comfortable deadlines to achieve them, or financial risks. The above generalization is obviously an umbrella for a number of organizational, personnel-, property- and acquisition-related and other measures in the field of command and control. These measures have been implemented since 2013, when the transition to today's structure took place. The support system must be ready at all times, and if an opportunity arises, it must be prepared to grasp it. We have succeeded, particularly in direct connection with the adoption of the Concept of the Development of the Army of the Czech Republic (2015), in launching and implementing development programmes falling into the purview of the Support Division of the Ministry of Defence. The combination of their speedy implementation, advanced preparation of investment projects, and implementation of projects falling into the category of centralized day-to-day expenses meant

that the support system has recently been developing very dynamically; since 2015, purchase contracts and long-term framework agreements for the acquisition of property and services worth more than CZK 50 billion have been signed. As to communication and information systems, the development programme, initially scheduled to take five years, was completed within two years, and we are now implementing its supplement. Projects such as MILSATCOM, Federated Mission Networking, acquisition of HARRIS transceivers, communication and information modules, data centers, etc. represent a major contribution to the army's capabilities. Potential investments could have been much higher, but financial allocations did not permit their implementations. The military medical support system has been upgrading and replacing equipment of field hospitals, replacing and making additions to the vehicle fleet, building units of active reserves, and implementing other projects. The system is developing very dynamically, keeps at the top in a very competitive environment, and enjoys a considerable international credit. Logistic support is the most extensive system and indeed a part of everything, and its priorities, such as standardized vehicle platform, containerization, mobility, host nation support, and increased first- and second-level logistic capabilities, are already being implemented and paid a lot of attention. An HNS battalion and the 143rd logistic battalion, and the Acquisition Facility of the Army of the Czech Republic are being built; logistic facilities in Ústí nad Orlicí and Květná have been returned to the army and are being upgraded; materiel,

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spare parts, personal gear, and ammunition are being restocked; allocations to maintenance contracts are going up; results of research and development and technical assistance projects are bringing financial savings, and will continue to do so in the mid-term horizon. So much for a brief summary of properly defined, well-timed, and well-initiated priorities.

International cooperation in the field of support is also worth mentioning. The Multinational Logistic Center (MLCC) in Prague has never been as prosperous as today and the number of its member countries is increasing. In 2019, the Federal Republic of Germany, Turkey, Ukraine, and the Netherlands are expected to join the organization. The MLCC has assumed the role of the "Department Head" and "Discipline Leader" for the Alliance and the European Union, respectively, for personnel training. It also plays an important part in planning and coordination of preparations of the CAPABLE LOGISTICIAN 2019 exercise, which will take place in Poland; it will be the largest interoperability-focused NATO logistic exercise so far. Although it has not yet been declared openly, the Czech Republic is perceived abroad as a nation specializing in logistics, and MLCC regularly reports its activities at meeting of the NATO Logistics Committee. The military medicine segment seamlessly organized the 49th plenary session of COMEDS in the Czech Republic, and Brigadier Zoltán Bubeník became the organization's chairman in 2018. These are important successes which strengthen the international prestige of our military medicine. The international cooperation in the

framework of the V4 Logistics Principals Group, the Czech Republic's leading logistic role in the V4 EUBG 2019, and the fulfilment of a common NATO capability objective, namely HQ Joint Logistics Support Group V4, merit a similar evaluation. The NATO Territorial Commanders Committee, on which the Czech Republic is represented by the Support Division of the Ministry of Defence, has become an efficient platform for communicating and implementing current tasks based on conclusions of the NATO summits in Wales and Warsaw. The increasing operational tempo of support elements, from assigning units and personnel to foreign mission and international exercises to the current task of providing host nation support and supporting the reception, staging and onward movements of forces of the Alliance, must also be mentioned.

What is your key task and goal now, in your present position of the First Deputy Chief of the General Staff of the Army of the Czech Republic?

The key issue now is a set of tasks in relation to the NATO, EU, V4, and partner nations. As the Alliance is adapting itself to a new security environment, the Czech Republic will strive to gain positions in the Alliance's structures, which will reflect interests and needs of the Army of the Czech Republic, and gradually flesh them out with skilled personnel. The Czech Republic has always fulfilled its obligations to the Alliance in an exemplary manner, and we definitely wish to retain this reputation. As repeatedly stated, one of our priorities will be positions at

the newly created Joint Support Enabling Command in Ulm. The MLCC has already been mentioned, and similar words can be used with respect to the CBRN COE in Vyškov. In the end of 2018, Canada joined the Centre of Excellence, Spain is preparing to join, and invitations to join have been sent to Finland and Belgium. In 2019, the concept of the NATO COEs will be updated; the changes will have to be implemented and, at the same time, reflected in a new CBRN COE concept. The Alliance also requires both organizations to strengthen their involvement in preparations of NATO exercises, and we will have to react accordingly. Between July 2019 and June 2020, the Czech Republic will hold the presidency of the Visegrád Four. The Army of the Czech Republic will be responsible for organizing events and fulfilling military tasks associated with the presidency. At the moment, we are defining priorities, principal topics and working groups that will deal with a joint approach and cooperation of the V4 countries in areas such as NATO/EU, cyber security, education, and cooperation in the extended V4+ format, particularly with the United States and Germany, and CBRN. We should also mention preparations for celebrations of the 20th anniversary of the Czech Republic's membership in the Alliance, which will culminate in Prague on March 12, 2019, and which will be attended by many foreign guests. Reminders of important anniversaries will be included in all principal public events organized by the Army of the Czech Republic in 2019.

What are the most essential plans and priorities of the Army of the Czech Republic in the area of armament acquisitions and logistic support in 2019 and in the mid-term horizon?

The Army of the Czech Republic is consistent in its planning. The army has a clear idea of what it needs and what must be upgraded, and the plans do not have any alternative at the moment. Previous years were characterized by intensive preparations of upgrading projects which are now entering the acquisition phase. Their list is well-known and nothing needs to be added to or removed from it. The acquisition process also cannot be narrowed down only to strategic and particularly important projects, although they are decisive and attract most atten-

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tion. The volume of purchased property and services increases every year and many deficiencies of the past are gradually rectified. This will also apply to the year 2019. Personally, I am happy that adequate importance is assigned to central current expenditures, i.e. money used to finance the day-to-day operation, services, and acquisitions of property needed to meet everyday needs of the army. In 2018, the Chief of the General Staff decided to launch projects with an immediate impact, whose purpose is to equip soldiers of combat units with personal gear, ballistic protection, small arms, and additional materiel. Within a few months since the decision, we managed to bring the project to the acquisition phase, and the deliveries will commence as early as this year. It is important to maintain the existing tempo and thus bring forward the modernization of the Army of the Czech Republic.

A question about logistics is quite appropriate, because the Czech Republic's defence industry is fairly advanced in this respect and able to find customers both at home and at international markets. We continue with purchases of ammunition, gear, ballistic protection aids, and spare parts, and sign long-term maintenance contracts in greater volumes than in the past. So there is nothing new here, perhaps only an accentuation of the positive trend. In 2019, the acquisitions of vehicles and equipment will continue, including

the launching of new public procurement tenders which reflect our long-term intentions to strengthen 1st and 2nd level logistic capabilities, mobility, and containerization, and to introduce a standard chassis system for the logistic support system for the Army of the Czech Republic. As to contracts that have already been signed, we expect to receive deliveries of medium and heavy off-road trucks, container loaders, trailers for transporting ISO 1C containers, fuel and water bowsers, containerized refueling stations, containers with special equipment, passenger cars, minibuses, and buses. Some of the trailers operated by the army will be upgraded. A delivery of recovery vehicles for units armed with Pandur wheeled IFVs will also be completed. We also plan to launch a public tender for an off-road passenger vehicle which should gradually replace the UAZ and Land Rover vehicles in the inventory of the Army of the Czech Republic. To sum it up – the year 2019 will continue to implement our logistic support development priorities which I introduced during our last interview two years ago.

To what extent have you succeeded in achieving the long-term goals set forth in the Concept of the Development of the Army of the Czech Republic? For example, how has the formation of the 143rd logistic support battalion in Lipník nad Bečvou, which should be completed in 2021, been proceeding?

The 143rd logistic support battalion is one of the two battalions which are being formed at the moment. After years of budget cuts, this is a great step forward in the development of logistic capabilities, and we are naturally satisfied. After all, which of the army branches can say it is building two new battalions? The battalion formation process combines three essential aspects – personnel, immovable infrastructure, and equipment. As to the personnel, everything has been going on as planned and the battalion will have 80% of its members in place by the end of 2019. It is encouraging to see that the public is interested in joining the army and specifically this unit. A sum of CZK 0.5 billion is expected to be invested into the immovable property of the base in Lipník nad Bečvou; the funds come from several programmes, including NATO-funded ones. The immovable infrastructure development is one of the top priorities of the army, although we depend on market reactions compliance with deadlines on the part of contractors. It is true that changes at the Lipník nad Bečvou base already are visible, but the process has been delayed compared to initial plans. The procurement of modern equipment is a continuous process which goes hand in hand with army acquisitions.

By January 1, 2023, another battalion should be formed in Rakovník. What was the reason behind the decision to build yet another battalion? A sum of more than CZK 4 billion has been allocated for the acquisition of equipment and vehicles. How is the Czech defence industry involved in this project?

The planned logistic support battalion in Rakovník is an example of a well-considered and –planned approach to forming a new battalion-sized unit. When a question of the type of unit to be stationed in Rakovník was being decided back in 2015, I suggested a logistic battalion earmarked for Host Nation Support (HNS) tasks. There were three aspects that prompted me to do so. The first of them is an existing deficit in the Czech Army's capacities specifically designed, structured, and equipped to provide support to forces of the Alliance in the territory of the Czech Republic. Due to security environment changes and an increasing



emphasis of NATO member states on capabilities enabling to react quickly and efficiently to potential threats, the formation of an HNS battalion in the structure of the Army of the Czech Republic is highly topical issue. The approach of other NATO countries is similar. The second aspect was a rational assessment of options and available resources which the Army of the Czech Republic will have at a given time. The formation of a logistic battalion is of course a costly ambition, but still less expensive than, for instance, a mechanized battalion or a similar unit of any other branch or service. The third reason was the necessity to reinforce logistic capacities of the Army of the Czech Republic as a whole. In the past, logistics was one of the Czech Army's branches that were hit hardest by reductions of command structures and organizational elements. Of course, consequences of these measures started catching up with us. The HNS battalion in Rakovník is expected to be a very flexible unit which can be used for a number of various logistic support tasks by the Army of the Czech Republic. In 2018, a decision was taken to implement the project and the Chief of the General Staff included the battalion's formation among his priorities. What I see as very positive is the fact that the upgrading of the immovable infrastructure and organizational preparations of the new unit in Rakovník started as early as in 2015, although at that time it had not yet been decided which type of unit would be stationed there. This was why we were able, as of October 1, 2018,

to officially establish an organizational element tasked with the implementation of different battalion formation stages and include it in the structure of the Logistic Agency.

The battalion in Rakovník will be a relatively strong unit consisting of professional soldiers, active reservists, and a mobilization element, altogether 943 soldiers and more than 600 vehicles and pieces of machinery. The Army of the Czech Republic plans to procure equipment and materiel the aggregate value of which will be more than CZK 4 billion; the first phase of the project will involve investments into immovable infrastructure in the amount of CZK 0.5 billion. Of course, the existing inventory of the army will be used as well. Apart from the HNS role, the battalion will also perform a follow-on task, namely the support of reception, staging, and onward movement of the Alliance's forces (RSOM). The battalion will be able to perform this task also outside the territory of the Czech Republic. Military capabilities of the HNS/RSOM battalion will be fully in compliance with NATO standards. Knowledgeable readers of the Defence and Security Industry Review can certainly imagine the vehicles and machinery which the battalion will have to be equipped with to be able to provide support to a larger NATO force. This is also an opportunity for the Czech defence industry. The acquisition of equipment and materiel for the HNS/RSOM battalion is a part of the projects I have already mentioned; mobility, con-

tainerization, and a standardized logistic vehicle platform, the implementation of which has already begun, albeit in quantities lower than we would actually need. The formation of the battalion has been elaborated and prepared to the smallest detail and the only threat that could jeopardize it is unstable funding.

The date of the IDET 2019 domestic international fair is getting closer. What is the concept of the stand of the Army of the Czech Republic at this event?

The Army of the Czech Republic sees support of the IDET 2019 fair as one of its main tasks. Just like in the case of the Future Forces Forum 2018, preparations of the IDET 2019 fair fall into the purview of the Support Division of the Ministry of Defence. The army will take part in the event not only through its stand, dynamic demonstrations, or active participation in accompanying conferences, but also through providing organizational and technical support of the fair, including the construction of obstacle courses. The dynamic demonstrations and static exhibits of the Army of the Czech Republic will present today's ground and aviation assets, armament, and equipment of all army branches and services. The IDET 2019 fair is an attractive opportunity for the public to get better acquainted with the Army of the Czech Republic, which should not be missed.

General, thank you for the interview.
Šárka Cook



EVPÚ Defence a.s.

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EVPÚ Defence is the only Czech manufacturer of commander and gunner sights designed for special military vehicles and a leading global manufacturer of electro-optical systems. EVPÚ Defence, a.s., is a Czech company the head office of which is in Uherské Hradiště and which has been known for a long time in the inner circle of army, police, and security forces. The electro-optical systems manufactured in the southern part of Moravia guard frontiers of more than 40 nations all over the world and find frequent use in projects of the Ministries of Defence and police forces of the Czech Republic and Slovakia.

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Within its extensive and growing product portfolio, EVPÚ Defence, headquartered in Uherské Hradiště in the Czech Republic, numbers the CRANE series of commander's and gunner's sights, featuring cooled or uncooled thermal cameras. The multi-sensor electro-optical (EO) systems have been developed primarily for integration with remote controlled surveillance systems and remote-controlled weapon stations (RCWS) – the latter on combat and security vehicles – thanks to their modular architecture.

Three versions of the gunner's sight with uncooled camera are offered, intended for integration with RCWS incorporating machine guns of 7.62 or 12.7mm calibre:

- The **CRANE SR1G** features daylight optics provided by an aiming camera with a horizontal angle of 3.7° and a colour surveillance camera with 30x continuous optical zoom and a horizontal angle of 2.3-63.7°, while the 1024x768 thermal camera can switch between a wide field of view (FoV) of 18.1° for area surveillance and a narrow FoV of 6.1° for detail views. Distance measurements up to 32 km are provided by a laser rangefinder. The system is entirely digital,

the GigE interface providing sensor communications with minimal interference and high quality image data. The CRANE SR1G will be integrated into the RCWS of a new chemical, biological, radiological and nuclear (CBRN) reconnaissance vehicle for the Army of the Czech Republic;

- The **CRANE XSR** incorporates a daylight surveillance camera featuring both monochrome and colour modes, with a 36x optical zoom capability. The 640x480 pixel uncooled thermal camera has two switchable FoV – 4.6° narrow and 14.3° wide;

- In the **CRANE SR**, two black and white aiming cameras with fixed focal lengths are partnered with the same thermal camera and laser rangefinder as for the CRANE XSR. Variants incorporating cooled thermal cameras are available for detecting targets at longer ranges and for a use for larger calibre RCWS. Two options are offered:

- The **CRANE XLR** features a cooled thermal camera module with a 640x512 pixel resolution and two switchable FoV of 2° and 10° horizontal angle for dark, dusty and difficult

operations. For daylight operations a colour surveillance camera module with a 36x optical zoom used. The sight is also equipped with a 20km-range laser rangefinder;

- The **CRANE LR** sight features two monochrome aiming cameras with fixed focal lengths and horizontal FoV of 2.8° and 10.5°. The bodies of all versions of the gunner's sights are ruggedised against shock, vibration and all unfavourable weather conditions. EVPÚ Defence does not simply assemble third-party components into systems: the company is a specialised manufacturer of the dedicated sensors, which are calibrated and tested in its purpose-built laboratory.

The company registered a high level of interest in the product during the IDEX 2019 exhibition in the United Arab Emirates, thanks to a live demonstration of the product.

The CMS-1 commander panoramic sight is a multi-sensor electro-optical system the sensors of which are mounted on a gyro-stabilized pan and tilt positioner, providing an



all-round field of vision to the commander irrespective of light or weather conditions. The vibration-resistant container comprises a daytime zoom camera (30x optical, 12x digital zoom) with a colour and a B/W modes. At night or in unfavourable conditions, a continuous-zoom cooled thermal camera is used. Distance measurement are performed by an eye-safe laser rangefinder which can reach up to 25,000 m. The commander sight's elevation range is between -90° and +70°.



Another interesting project fielded by the Army of the Czech Republic is known as SeeCheck – a system monitoring the surroundings of a vehicle and guarding the safety of its crew.

The Czech Army uses the system on Iveco LMV 4x4 armoured vehicles and LOS-M and Sněžka-M tracked armoured reconnaissance and surveillance vehicles. The SeeCheck system is also integrated into communication and command role versions of the Pandur II 8x8 wheeled armoured vehicles which the Army of the Czech Army is currently preparing to field.

The SeeCheck monitoring/display system is designed particularly for monitoring close surroundings of the vehicle, protecting dismounted soldiers, or guarding the perimeter around the vehicle in both daytime and nighttime. The system which EVPÚ Defence developed on its own initiative and at its own expense consists of a control and display terminal designated TU-1 and a SeeCheck sensor-mounting pan device with a daytime and a nighttime branches. The former comprises a CCD module with a fixed focal length lens and a resolution of 720 TV lines; the nighttime branch makes use of an uncooled thermal imaging module the resolution of which is 324x256 pixels. The fields of view of both modules are optically aligned, their angle being 63°H. Optionally, the system can also be equipped with a sensitive AWIR uncooled thermal camera, or with a daytime/nighttime AWIR D camera with an IR illuminator.

The TU-1 terminal can control one SeeCheck sensor unit and up to four additional cameras mentioned above. Its side buttons, touch screen, and intuitive control software allow the operator to control the system easily and quickly. The terminal also permits, for instance, to display three videos or to merge images obtained from the CCD and IR modules of the SeeCheck unit.



In addition to developing, manufacturing, and maintaining the abovementioned elements, the company also integrates them into more complex surveillance and weapon systems. Thanks to cooperation with the parent company, EVPÚ a.s., it can deliver complete integrated solutions of remote-controlled surveillance systems and weapon stations. An example of the cooperation is the ZSRD-07 weapon station with a 7.62 mm FN MAG machine gun, which is in the inventory of the Army of the Czech Republic, or with a 7.62 mm PKT machine gun, which is mounted on Iveco 4x4 vehicles used by the Armed Forces of the Slovak Republic. Its new generation, Gladius, which is currently being developed, is armed with a 12.7 mm machine gun (NSVT or M2) and is considered for integration on 4x4 vehicles of the Armed Forces of the Slovak Republic.

TURRA 30 remote-controlled weapon station

Another example is the TURRA 30 weapon station, whose modular architecture permits the user to choose from various sight, weapon system, electrical equipment, or ballistic protection solutions. The TURRA 30 weapons station is armed with a 30mm Bushmaster Mk44 automatic gun (alternatively with a 30mm 2A42 gun), a 7.62 mm FN MAG machine gun, the 3rd generation SPIKE LR ATGM launcher, and smoke grenade dischargers.

The full version of TURRA 30's sighting system comprises a CRANE XLR stabilized gunner sight with a cooled thermal camera and an independent CMS-1 commander panoramic sight. The body of the weapon station is armoured, the basic version of the

armour providing STANAG 1 ballistic protection to the weapon station and STANAG 3 ballistic protection to the vehicle's crew. The weapon station's design permits to fit add-on armour, and thus increase the ballistic protection level. Thanks to ammunition being stored outside the crew compartment, the weapons being mounted above the hull roof level, and the operators being positioned outside the turret assembly, the safety of all crewmembers of the vehicle is greatly improved. TURRA 30's control unit enables full functionality of the vehicle's Battlefield Management System.

TURRA 30's electrical equipment is highly modular and enables maintenance to be performed and modifications to be implemented in an efficient and quick manner. The variability of the weapon station's components, from the basic version up to the complete version with the independent commander panoramic sight featuring the "hunter-killer" functionality, increased level of ballistic protection, smoke grenade dischargers, and other elements, such as a laser illumination detection and identification system, make the TURRA 30 weapon station a combat asset that can be integrated on a number of vehicles and gives the customer a possibility of choosing from a broad spectrum of configurations and prices.

Laser warning system

EVPÚ Defence also delivers and integrates an easy-to-operate, reliable laser illumination warning system, capable of alerting the user to a broad spectrum of laser devices, from laser rangefinders or laser target designators to laser beam guided weapon systems and some types of radars.

EVPÚ Defence, a.s., will display many products from its portfolio, including monitoring systems and all types of commander and gunner sights, at the forthcoming IDET fair in Brno. EVPÚ Defence will also be present at the DSEI fair in London, NATO Days in Ostrava, or Expodefensa in Bogota, Colombia, but will not display as many products as in Brno. Additional information about EVPÚ Defence's products can be obtained at www.evpudefence.com.



ATS-TELCOM PRAHA a.s.

is the innovator in providing Information Security services



ATS - TELCOM PRAHA a.s. is not only a system integrator in telecommunications, building large data and voice networks, but also a leader in building information security in the public and private sectors from design to implementation. We hold a security certificate issued by the National Security Authority of the Czech Republic and NATO for the classification „SECRET“. We have our own certified security team of security analysts, architects and cyber and information security managers. We provide consulting services for our clients to implement legislative requirements into the organization's processes, including the delivery of security role services, in accordance with international standards, methodologies and recommendations.

In our portfolio, we have the technology and services that comply with current legislative requirements and international safety standards. Our clients can be found mainly among government departments and in the private sector, in the energy and information security sectors in general.

Our portfolio is linked to communications security and communications and data security, focusing on providing certified cryptographic services, building secure mobile communications and communications gateways. We are a leader in building operational and security monitoring systems using „machine learning“ services, operating and security logging, data modeling, privileged account monitoring, secure voice

and data network systems, extensive investment protection, licensing rights, and secure data management. Ensuring continuous qualified service support, in accordance with the requirements of NUKIB. We devote the greatest attention to building capabilities and meeting the operational requirements of multi-tier client security architectures to deliver timely responses to cyber security events and incidents. We build integrated security and operational client centers. We pay maximum attention to the protection of investments already made in the field of operational and security monitoring, including SCADA. For such sites, we deliver not only next-generation software and hardware technologies that can respond to potential security threats in a timely manner.



In cooperation with the renowned foreign partner Cyber Test Systems, we provide security testing services for critical systems and infrastructures within NATO systems. Using a CTS-NTG network traffic generator that can generate from 1 Gbps to 100 Gbps to create legitimate and malicious traffic, enabling the ability to perform true performance, stability, and high availability and security tests by generating advanced cyber-attack scenarios such

as: - Denial of Service (DoS) - Distributed Denial of Service (DDoS) - Reflective Denial of Service (RDoS) - Distributed Reflective Denial of Service (DRDoS) - Network Reconnaissance - Application Reconnaissance - Brute-Force - Exploits - Client Side Vulnerabilities and Exploits - Malicious Domains - Malicious Websites - Malicious Phishing Websites - Newly Emerging and Known Malwares for Windows, OS X, Linux, Android, iOS Cyber.

We simulate a variety of scenarios according to customer needs. We train in green, yellow, red, blue and white teams for the most realistic attack scenarios. We train various customer teams at different levels of knowledge in acquiring cyber security and threat response skills, with a focus on detecting and recognizing cyber-attack vector behavior.



VR Group, a.s.

Modern Solutions for Training

The most important task of armed forces during peace time is to prepare for armed conflict or crisis

The dynamic development of technology brings about its increased availability not only in everyday life, but also for strengthening the capabilities of potential adversaries at the group to state level. The society is becoming more and more dependent on information technology, which despite all the benefits, creates an opportunity for cyberattacks with a significant impact on society. New technology and advanced information systems are also being implemented in the armed forces environment, which naturally implies that in future conflicts or crises, these systems, whose individual abilities largely exceed those of people, will be pitted against each other. Nevertheless, people still have to evaluate the information and decide when and where the advanced systems are to be used and ensure their cooperation and coordination. The preparation of the armed forces must therefore include not only technological readiness and system deployment, but also building and strengthening their members' capabilities in the operation and management of individual systems. The necessary preparation at all levels of command and control requires obtaining the right "digital knowledge" which is vital for today's systems, as well as the ability to use the systems on a daily basis and jointly interpret the acquired information and, of course, the ability to use technologically advanced combat systems in operation, both on the individual and predominantly command and control level. Simulation technology has been used in armed forces training since information technology was in its infancy. Nowadays,

both military equipment and simulation are based on information technology and are very close to each other, sometimes in the same way as real military equipment. Current modern simulation systems make use of technological development to faithfully simulate the environment in which the simulated systems operated by trainees run. These training solutions not only provide considerable economic efficiency, but they also enable training which would not be possible without simulation because of the threat to lives and property, differences in geographic conditions or perhaps due to space and time-consuming training in large multilevel operations.

The Czech Republic has long-term experience in armed forces training using simulations. In 1998, the project "Construction of the Czech Army simulation centres" was launched, namely building capabilities of a simulation centre for staff training at the battalion / brigade level in Brno and for individual and tactical training at the company level on virtual simulators in Vyškov. VR Group, a.s. was responsible for system integration of the simulation centres construction which included close cooperation and synergy between the user and the Czech defence industry. At the same time, and again in close cooperation between the user and industry, VR Group built a comprehensive L-159 pilot training centre in Čáslav. Using this experience, the Tactical and simulation centre in Pardubice (TSC) for tactical air force training was established in 2010 and later a training centre for

tactical helicopter crews was built at HTP Ostrava. Both centres provide training for the Czech Army as well as foreign customers.

As stated at the beginning, the dynamic development of technology has had a direct and fundamental impact on the training requirements of the armed forces staff. Training solutions must provide real-life simulation of the operation environment using all weapon and command and control information systems. The importance of preparing commanders to acquire command and control skills at all levels of command is increasing in proportion to the growing complexity of conflicts and threats. The increasing interest in tactical and collective training in existing centres confirms this. The Czech Army is ready to meet all current and future requirements on training and preparation. One does not necessarily need to build new training facilities from scratch. It is often enough to modernize and increase the capacity of the existing ones. VR Group is ready, along with other Czech industry players, to use its experience and technological capabilities to build the necessary training and preparation capacities that are indispensable especially today, at a time when major investments in new combat equipment and increasing armed forces staff are planned. What is positive is that in recent years the conditions for active industrial cooperation between the Czech industry and Ministry of Defense have been created again. The truth is that without cooperation between military and manufacturer experts, the best solutions cannot be achieved.



Training & Simulation



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New Capabilities Enhance Heron UAS Family

As a family of unmanned Aircraft systems (UAS) the Heron brand comprises the Heron TP, two variants of Heron I, configured for maritime and land operations, and the new variant - T Heron (Tactical Heron). The drone family shares ground segments, common systems, and mission payloads, enabling users to perform numerous missions, consolidate training, qualification, maintenance and logistics. IAI continue to evolve the Heron family, introducing new mission payloads and capabilities.





Long Runner - Remote Operations

Remote autonomous operation from forward locations is a unique new capability available with Heron I and Heron TP. This function enables operators to land a Heron at any airstrip within its range, without prior preparations or on-site instrumentation. Once landed the aircraft can be refueled, change payloads if necessary, and take off, all by remote control Using satellite communications (SATCOM). Furthermore, an aircraft based at such remote location can be launched on a mission from without human support.

To autonomously land at a given location the Heron would survey the location, monitor the weather condition and wind direction, and autonomously plan its approach. It will transmit this plan to the operator for permission and once such permission is granted, will descend to the final approach. Once upon touch-

down it slows, and taxi to the designated parking spot it allocated from the air. When full shutdown is necessary it is performed by the remote operator, who can also start-up the aircraft. Local support is necessary only in refueling.

Mission Operational and Intelligence Center (MOIC)

Long Runner functionality enables centralized management of multiple UAS missions from a single Mission Operational and Intelligence Center (MOIC). Instead of using separate ground control station for each platform, MOIC gathers numerous platforms, payloads and datalinks that utilizes a fleet of UAS in the most efficient and responsive way.

The center's modular layout utilizes multiple mission operation cells supporting individual platforms, along with mission command, exploitation and C2 cells. The

center shares mission trainers, SATCOM and support facilities and maintains a data storage center.

By centralizing and automating operations MOIC optimizes mission flow, from the planning and preparation phase, through mission command and control, to monitoring mission performance and data analysis of real-time and archived raw and processed information and debriefing.

By combining MOIC and Long Runner users can optimize UAS deployments, operating individual platforms from locations at or near their theatre of operation, thus dedicating most of the flight hours to useful operational missions, rather than transit in and out of the area of interest.

Innovative Universal Control

The latest workstation for Heron operators is the Innovative Universal Control



Station (iUCS), an advanced multi-tasking system enabling operators to 'fly the mission', while the computer automatically 'flies the platform'. iUCS conforms to NATO STANAG 4586 ED-2 and links to the specific platform through a Vehicle Specific Module (VSM) server. This way every ground station can seamlessly control all Heron family members.

This method simplifies operator training and qualification, as it allocates many tasks to series of computer enabled functions. This process improves mission reliability, by preventing common human errors and enables users to focus on the essential missions. Handling emergencies, loss contact or recovery are also activated with a click of a button. As a remotely piloted autonomous aircraft all the functions of the Heron are remotely controlled.

iUCS comprises a video wall and a touch screen tablet controller used for planning and interface with the system. Stick and hand grip are used for mission payload control.

With iUCS a drone operator can perform self-test, taxi and takeoff on a mission, all with a few clicks of a button. While airborne the operator can perform specific mission segments loaded to the system. iUCS fully supports the Heron's wide-band datalink and stores all sensors data for the entire flight, thus enabling situational analysis while the system continues to scan other targets with other sensors. iUCS automatically performs specific functions through the mission, such as change detection, revisit points of interest, or maintain a flight path through predefined corridors to obtain predefined overlap etc.

Ready for Emergency Response

While the Heron primary mission is military, these assets can rapidly be assigned to civilian roles, for example, responding to natural disasters or other emergencies. In such circumstances the Heron provides rapid situational assessment and real-time monitoring of the disaster area, delivering live video, mo-

tion detection and rapid assessment of the locations that need the most urgent assistance.

With large payload capacity and long endurance, the Heron can establish emergency communications services covering large areas, and link back to national, international and satellite networks. Furthermore, it can use cellular communications scanners to locate people trapped in collapsed buildings or isolated in flooded areas, by detecting their mobile phones. Maritime Herons are particularly useful in response to emergencies at sea, providing rapid situation assessment, constant monitoring of the affected area, or use multispectral imaging techniques to assess environmental damage, when tracing oil spills and pollutions.

To further support first responders the Heron can be equipped with direct messaging capability, enabling users to receive automatic alerts direct from the drone. Such alerts can include text, image or video.

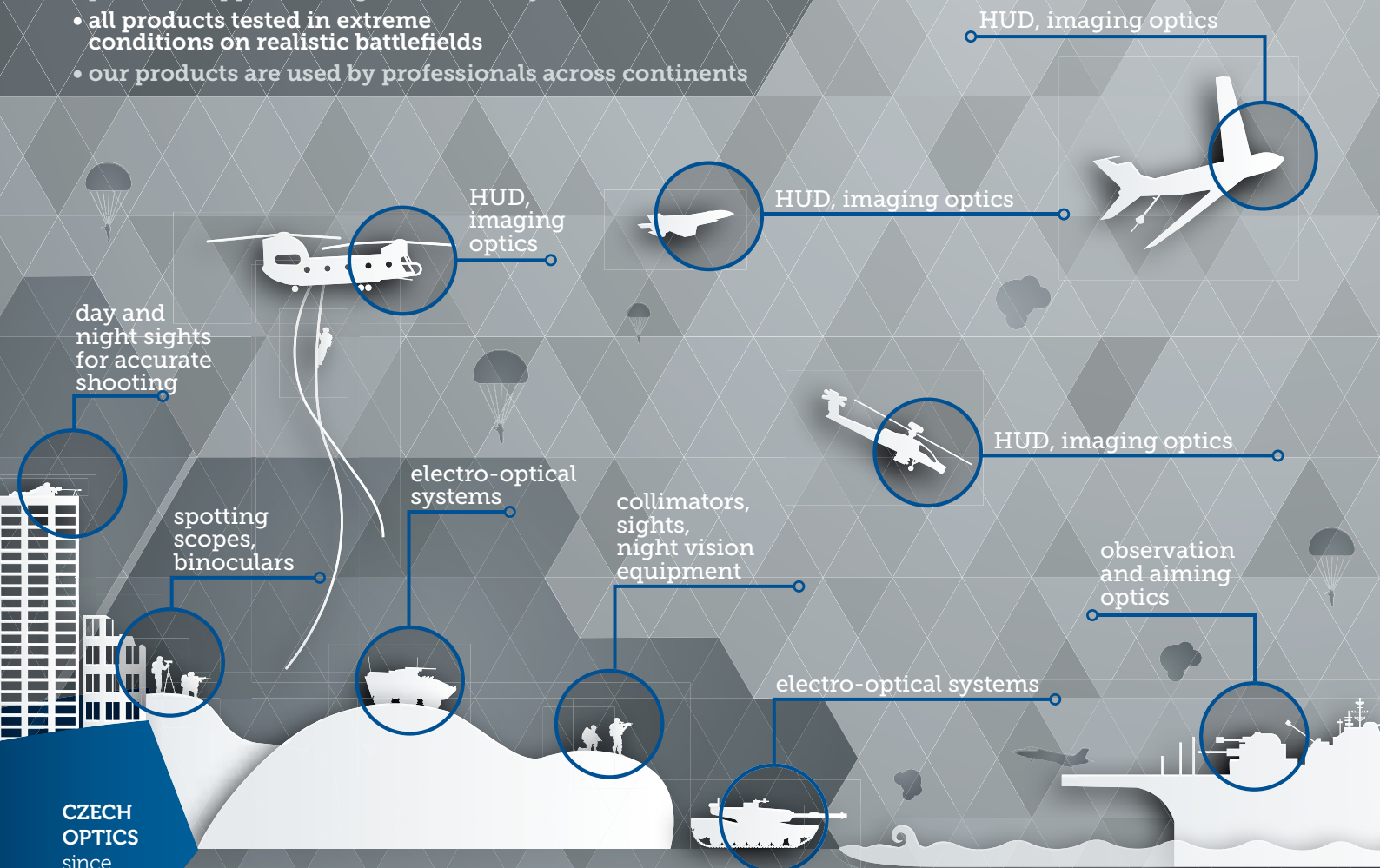
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UVA 500

New Water Treatment Plant for crisis situations

AGADOS's portfolio also includes, besides the PK 4 KAGA mobile field kitchen, which was awarded the Golden IDET 2017 and the Prix IDEB 2018, and other special projects, UVA 500 water treatment plants.

The basic task of the UVA 500 is to modify contaminated water (biologically, chemically, radioactively) into drinking water or the desalination of seawater. For this purpose, the Waterclean 500 - RO plant by the company Futuretech is used. It combines various physical and chemical processes and ensures effective water treatment in a wide range of pollutants. An integral part is also a solid particle filter and a self-cleaning device. Another element located on the unit is an electric chlorinator designed

for the active production of chlorine from edible salt for disinfection purposes. By its use, the transport and storage of hazardous chemicals is rendered unnecessary. To ensure the unit operates in field conditions, the chassis is equipped with a central power generator so that it is possible to connect other devices.

The UVA 500 water treatment plant uses the same type of chassis as the other AGADOS special products designed for use by armies and components of the Integra-

ted Rescue System. It is a single-axle sprung chassis with a total weight of 2,000 kg. The trailer is equipped with a height-adjustable drawbar allowing connection to towing vehicles of different types (depending on the height and type of the towing device of the vehicle). The whole unit is covered by a canvas with a tilting structure that covers the work area. The chassis houses lockable boxes to store necessary accessories and chemicals. The workplace is also equipped with lighting.



Advantages

- The chassis makes it possible to move the device in rough terrain
- Quick and easy commissioning
- Easy to handle (operated by one trained person)
- Use of height-adjustable drawbar (attachment variability)
- Ensured lifecycle of the product - service provided worldwide
- Fully automatic device

Technical data

- Dimensions (l×w×h) 4,100×2,250×2,850 mm
- Total weight of 2,000 kg
- Unit capacity up to 550 ℓ an hour | 13,200 ℓ a day
- Chlorine production up to 6,000 ℓ an hour



Other special products brought to market by AGADOS are, besides the PK 4 KAGA mobile field kitchen, the larger PK 6 field kitchen, the NAVA 2000 mobile tank, or the NANUK freezer box for preserving fresh food even in extreme conditions. Furthermore, the company offers the OVA mobile lighting tower suitable for illuminating bases, areas of accidents, fires, etc.

AGADOS is focused on the production of trailers of all categories. In this area, it is a company of European importance - just half of the production is exported. The annual amount of produced trailers is more than 30,000. AGADOS's production grows year by year due to growing interest in its products.



PK 4 KAGA



PK 6 KAGA



NAVA 2000



NANUK



OVA

MOBILE SOLUTION FOR COMMAND & CONTROL CENTERS AND DISPATCH POSITIONS

Portable Dispatch Position (PDP) provides a complex solution of both hardware and software dedicated to setup a full-scale workplace of integrated Communications, Command and Control Center in the field. The solution was developed by KOMCENTRA Ltd. in response to European Police forces. The original solution of KOMCENTRA's portfolio has been upgraded to its 2nd generation with several substantial improvements resulting from practical use by the Czech Police.

The current complex security situation, ever-increasing need of monitoring and border security, possible escalation if migration flows as well as incident risks may require a field Command & Control Center deployed in sparsely inhabited areas, apart from fixed command posts of the Police, with strong communication infrastructure of its own. As a result, KOMCENTRA offers its improved 2ndG modular solution of the PDP, composed

of several interconnected components installed and transported in ruggedized transport boxes.



The PDP is supported by own strong hardware to run the back-end database and communication software, radio terminals, VoIP telephony switch, mast with antenna system and secured data connection via both satellite link and

ground mobile network. Workplaces may be connected as many as needed according to the situation, each workstation equipped with three monitors, audio hardware, integrated communication console and other peripherals. The biggest advantage as found by users is ease of transportation, deployment and rapid setup in the incident vicinity.

The PDP is currently used wherever security situation requires ad hoc Command Center in the field. The PDP software capabilities are identical with those used by integrated Command Centers of the Czech Police for emergency call handling. The PDP workplace inter-operability with JITKA system used nationwide for operations control of the Czech Police thus enables the Police to deploy and run not only an ad hoc Command and Control Center in the field, but also to set up an additional full-featured emergency call handling center in a crisis situation.

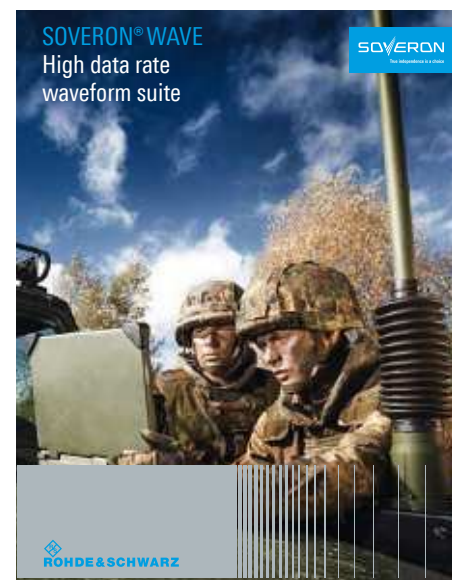
SOVERON from Rohde & Schwarz delivers technological independence and digital communications sovereignty

At IDEX 2019 in Abu Dhabi, Rohde & Schwarz demonstrated its proficiency as a systems partner and integrator who plans, develops and implements secure communications architectures and networks. SOVERON provides digital sovereignty throughout the chains of command for all branches of the armed forces.

Munich, February 18, 2019 — Digital sovereignty and technological independence are extremely crucial for government customers with security-critical applications. Rohde & Schwarz presented its SOVERON solution at IDEX, the International Defence Exhibition and Conference in Abu Dhabi, which takes place February 17 to 21, 2019. SOVERON gives government customers a secure, high-performance network architecture consisting of state-of-the-art, innovative hardware and software, cryptology and intelligent routing. It takes into account their security and national interests and enables

them to achieve information superiority. SOVERON ensures simple, platform-independent integration of existing and new systems and products. Rohde & Schwarz develops and manufactures the key components in house so that users are independent of third-party technologies and solutions. The key feature of SOVERON is the Rohde & Schwarz software defined radio (SDR) technology based on the Software Communications Architecture (SCA). SOVERON SDRs are implemented as open platforms with strict separation between hardware (radios) and software (waveforms). This design allows both SCA-based waveforms such as SOVERON WAVE and third-party legacy waveforms to be ported to the radios, protecting customers' investments and providing backward compatibility with legacy radio systems. Since customers can create and modify the embedded encryption as well as the waveforms, they can set up secure com-

munications channels to provide interoperability between different branches of the armed forces and between nations.



Armored vehicle for the 21st century

Gerlach 4x4 is a new generation tactical armored vehicle. The latest 21st-century engineering and design requirements have been taken into account in the development of this vehicle, alongside actual experience in military conflicts.

Gerlach has demonstrated superior terrain skills during the army tests. The vehicle had overcome a 0,5-meter stair, and a 1-meter wide trench, carrying six 120-kilogram weights to simulate a six-member crew in full battle gear. In addition, it was transporting a 1-tonne load in cargo space.

In other stress tests conducted by the manufacturer, the vehicle climbed gradient of a 100% on a short stretch by overcoming a 45-degree approach angle with a full weight of 14 t. On long stretches, it can comfortably climb 60 %.

The cabin is designed as an armored capsule with an unprecedented SAFETY space of 7.7 m³. Compared to standard space for 4-5 people, it has enough room for a six-member crew up to 190 centimeters tall and weighing 130 kilograms including gear. When necessary, space can be provided for an additional two crew members. The cabin is anchored independently of the vehicle undercarriage.



Gerlach can be readied with different degrees of ballistic and anti-mine-blast protection provided in STANAG 4569 – Vol. 1 and Level 3 ballistic protection and Vol. 2, Level 3a and 3b anti-mine protection.

Gerlach has an exceptional ratio of 17.1 kilowatts per tonne. The vehicle is dynamized by a German 240-kW, six-cylinder MTU engine, supported by a 6-gear automatic downward GHM transmission. The independently suspended wheels are powered by a set of uniquely balanced drive shafts.

Gerlach's cargo carry a further 1.5 tonnes of necessary gear and equipment. Vehicle versions can be rapidly altered to meet the requirements. The basic version with weight of 12 t. includes filter ventilation plus air conditioning and protection against chemical, biological and nuclear weapons.

www.zetorengineering.com



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- Doprava vojenského a IMO materiálu
- Odborná konzultační činnost

Special Group:

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- Shipping and transport consulting



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GLOMEX Military Supplies is one of the Czech Republic's leading suppliers of a wide range of defence technologies, devices and equipment for Air, Ground and Special Forces and Law Enforcement in the Czech Republic and in export markets, especially in Central and Eastern Europe (CEE).

The strength of the company is based on its ability to act as an integrator. Its customers get a tailored service from the very beginning of the project all the way through to after-sales training and service. The company continually works with its clients on the long-term support and maintenance of equipment that is currently in use. It achieves this by operating its own technical, maintenance and storage facility equipped to work with high-end electronics, including night vision devices and special aviation equipment. The companies

involved in its integration projects are amongst the world's most accomplished.

The key products of GLOMEX Military Supplies' portfolio comprise Air and Army Forces technology, night vision systems, blue force tracking systems, high altitude equipment for pilots, various parachute systems and special air forces equipment. Further, the company offers and carries out projects in the fields of artillery equipment, artillery and air force ammunition, including its testing and storage. In addition, the company is involved in equipment modernization projects for the Army of the Czech Republic and other Armed Forces within CEE, providing IFV, MBT and other armored vehicles; communication devices; engineer corps equipment; medical equipment; avionics; and other instruments and technologies.

SOKOL™

With over 30 years of experience, e.sigma is a specialized supplier of integrated training solutions for international armed forces, security agencies and the defence industry.

In e.sigma, we believe that standardization and the usage of commercial-off-the-shelf-equipment, as well as commonly used operating software, equip the user with easy maintainable products and allow straightforward upgrades and expansion. Our software development and modular platform technologies enable the customized project execution of simulation systems and training centers.

Parachute Simulator covers multi-stage and holistic training of parachute-jumpers from beginner right down to paratrooper, Special Forces and amphibian troops.

In contrast to real jump, training on SOKOL™ offers an optimization, as exercises can be repeated under the same conditions as often as desired. Exercises can be expanded by making all sorts of



adjustments, such as to wind and weather conditions, daytime and nighttime, thereby making the situational difficulty selectively harder for the trainee.

The safe simulator environment allows the trainee to fully concentrate on his/

her jumping skills without distracting thoughts of injury and dangers posed during inclement weather jumps. Offering broad spectrum of training possibilities, SOKOL™ superbly closes the gap between theoretical learning and practical exercise.



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IDET
2019

15TH INTERNATIONAL
DEFENCE AND SECURITY
TECHNOLOGIES FAIR

29.5. – 31.5. 2019

BRNO, CZECH REPUBLIC

IDET 2019 WILL PRESENT TOP MILITARY EQUIPMENT ON AN ALL-TIME-RECORD AREA

Defence spending is on the rise worldwide, the development of defence and security technologies is accelerating and the long-awaited tender for infantry combat vehicles for the Czech army will culminate this year. All this will be positively reflected at the IDET International Defence and Security Technologies Fair, which will be held at the Brno Exhibition Centre from 29 to 31 May 2019.

“The exhibitors’ interest in IDET is higher than two years ago, the fair will be larger and richer in exhibits. The increase does not consist in a higher number of stands but in a significant expansion of rented exhibition space, because companies want to present a larger quantity of attractive exhibits,” says project director Michalis Busios.

On the background of the increased interest are the currently unfavourable security situation, the threat of terrorism and the emergence of new tension spots in various places around the world. The share of defence spending in GDP is growing nowadays not only in the Czech Republic, but almost everywhere. Increased demand is responded to by defence and security technology manufacturers who invest more in research and development and want to showcase their innovative products to potential customers. The markets in the Czech Republic and in the neighbouring countries are an attractive outlet for suppliers, this is why new exhibitors from abroad are on this year’s IDET, and other interesting participants return to the Brno Exhibition Center. In addition, we are a traditional armament superpower and we have something to present to customers from all over the world. The IDET fair will therefore once again be visited by representatives of armed forces of many countries; 40 army delegations from around the world have been officially invited.



PRESTIGIOUS EXHIBITORS AND TOP EXHIBITS

Of course, all key bidders for the largest contract in the history of the Czech Army worth 53 billion crowns will be presented at the fair. The supplier of 210 infantry combat vehicles is likely to be selected among four companies: British BAE Systems (CV-90), Spanish General Dynamics European Land Systems (Ascod) and two German companies – PSM (Puma) and Rheinmetall Landsysteme (Lynx). All four eligible armoured vehicles can also be viewed by IDET visitors. Their exhibitors will obviously bring in also other exhibits, for example, the Pandur manufacturer General Dynamics has announced two heavy-duty tracked vehicles and one wheeled vehicle. News in this category worth paying attention feature the tactical armoured vehicle Gerlach, which has successfully passed the tests and will be exhibited in Brno by the Slovak company Zetor Engineering. The Belgian company CMI Defence will be exhibiting for the first time – it produces, among others, top weapon systems for military vehicles; and after a few years, the Finnish manufacturer of armoured vehicles PATRIA is returning to IDET.

A unique show is also under preparation in other sectors, including aviation. For example, the legendary Black Hawk army helicopter is bound to arrive and decorate the display of the company Czechoslovak Group. The first-time participant Modelárna LIAZ will showcase its unmanned helicopter. The Embraer aircraft manufacturer arrives for the first time from Brazil, and the US company Lockheed is returning as one of the leading brands in the industry. There will also be IAI – Israel Aerospace Industries, the biggest Israeli aircraft manufacturer. The partner country of IDET 2019 is Sweden, representing, amongst others, the company Saab Technologies as the manufacturer of Gripen aircraft. The Defence Industry Association of Sweden is preparing the Swedish national stand, featuring additional Swedish manufacturers. Two Swedish companies will also be exhibiting at the BAE Systems group display.

The largest exhibitor at IDET is traditionally the Ministry of Defence of the Czech Republic together with the Czech Army. This year's stand will be traditionally spectacular and the presentation will mark the important anniversaries we celebrate this year: 100 years since the establishment of the General Staff and 20 years since our entry into NATO. This is where fans of technology will also have theirs, and the army display will also be available for viewing on Saturday 1 June, when the other exhibitors at IDET will already be winding up.

CZECH COMPANIES IN FULL ARMOUR

Czech armament manufacturers have been successful in foreign markets in recent years, and the value of their exports has regularly exceeded 15 billion crowns per year since 2015. Their strong position will be reaffirmed also by this year's IDET, which will not be missed by virtually any of important members of the Defence and Security Industry Association of the Czech Republic. Most companies are also expanding their presentation, an example being the largest company Czechoslovak Group that took 500 square meters two years ago, while for this year it has already booked 800 square meters plus more than 600 square meters in the outdoor area. Other big names will feature Česká Zbrojovka, EVPÚ Defence, Glomex MS, Omnipol,





VOP CZ, SVOS. LOM PRAHA and others. The fair once again attracts companies that have missed some of its seasons in the past. An example is PRAGA-Export, which has announced the presentation of a new car with a trailer.

A stand of record-breaking dimensions is being prepared this year by the Military Technical Institute [Vojenský technický ústav]. For the first time, it exhibits not only inside the hall, but also in the outdoor area, where it will present new antenna masts. Current projects and new technologies of defence research and development will be presented, for example, by a modernised Biobox for the transport of fatally infected persons or upgraded weapon systems including a 60 mm gun mortar.

Newcomers to IDET include the company Nimrod – Ivo Štorek, which will introduce new sniper rifles, automatic rifles and the latest range of riflescopes. The première will also be had by the industrial X-ray device manufacturer ELEDUS. In its display, you will see a new compact SCIOX Security X-ray Scanner for searching for covert listening devices and checking mail or luggage. On the contrary, none of the previous seasons was skipped by the company ORITEST with a range of personal protective sprays and products for detecting the presence of combat chemical and industrial toxic substances.

Innovations for this year's season have been announced by both large and smaller exhibitors across all industries. For example, the company Aliter Technologies will introduce its VIMA virtual mast that replaces classical mechanical masts. The manufacturer of radar equipment and airport survey and landing radars T-CZ will showcase its new SIMON monitoring system and its recently completed LVA antenna. The company Olympus Czech Group will boast its new instrument for visual control of hard-to-reach areas with UV and IR illumination. The company NIDES will bring, among other items, a new model of its remotely controlled teleMAX robot for pyrotechnic applications. The best exhibits will again compete for the prestigious Gold IDET award.

CONCURRENTLY WITH PYROS, ISET AND AN ATTRACTIVE SUPPORTING PROGRAMME

IDET is part of a shamrock of security fairs, including the PYROS International Fire Fighting Equipment and Services Fair and the ISET International Security Technology and Services Fair. These two fairs will remain open also on Saturday 1 June, when the Exhibition Centre will open its gates to general public and families with children. An attractive supporting programme with dynamic demonstrations of cutting-edge technology and intervention actions of all three components of the Integrated Rescue System will take place on the off-road polygon and in the outdoor exhibition area.

As regards IDET, only the display of the Ministry of Defence of the Czech Republic and the Czech Army, including their sideline outdoor activities, will remain open on Saturday. However, the commercial part of IDET is primarily intended for professionals and is subject to rigorous security measures. That is why IDET ends on Friday 31 May, and during the first two days, i.e. 29 and 30 May, Hall P will be open only to visitors over the age of 16.

The reputation of the IDET fair is also based on a top-level professional supporting programme, which is attended by defence and security experts from various countries. The Brno University of Defence is once again preparing the traditional CATE (Community-Army-Technology-Environment) conference and along with it will take place a number of additional interesting events, which we will keep you informed about.

www.idet.eu

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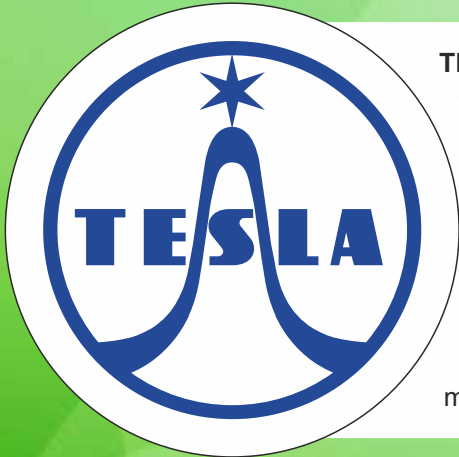
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New **IDET NEWS** on the occasion of IDET 2019 in Brno, Czech Republic

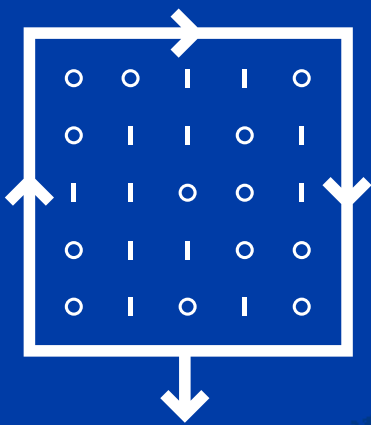
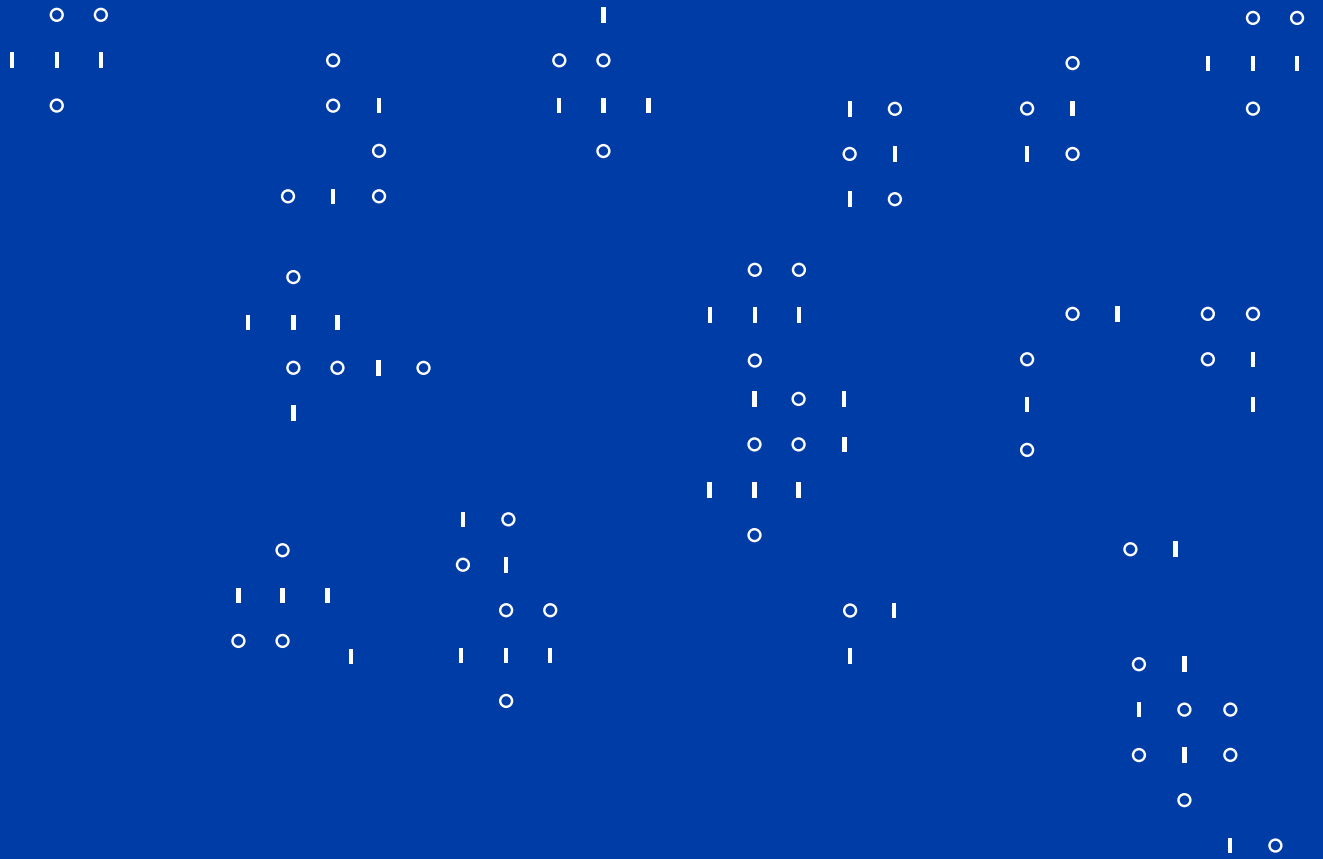


Next edition of IDET NEWS Czech-English magazine will be published on the occasion of IDET, ISET and PYROS exhibitions 2019 as a traditional part of that great show hosted by BVV Trade Fairs Brno. Our publishing house MS Line is again the exclusive media partner of the IDET 2019 Fair for the Czech Republic.

IDET NEWS will present you unique, new and interesting items exhibited by the companies including the invitations to their stands, along with interviews with the national administration bodies' representatives.

If you are interested in a presentation of your company's profile or products, contact us at: www.msline.cz or info@msline.cz

Last issue of IDET NEWS 2017 you can read here: <http://msline.seethebrand.com/idetnews/2017/>



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