

A. Article

1. Theories, concepts and doctrines

Title in English:	UNDERSTANDING OF SECURITY IN RECENT POLITICAL MILITARY DOCUMENTS OR NON - DICHOTOMY VIEW OF SECURITY
Author(s):	Dipl. Eng. Vladimír ZIKMUND, col. ret.
Language:	Slovak
Keywords:	Security, dichotomy, comprehensive approach, operational environment is complex, perception, military contribution to resolve of crisis.
Abstract:	In civil scientist environment is in recent year tendency to apply broader approaches to examine the security. One of these approaches is look for any intra contradiction and so look for any dichotomy. The study "The status of dichotomy in security research", which was presented at Security conference in Military academy Liptovský Mikuláš in October 2011, was focused on two types of dichotomies. The goal of this article is, in reference to key themes of actual political-military and military documents refer that complexity of nowadays crisis not allowed the dichotomy approach to security.

Title in English:	SILENT WARFARE AND HER TO AFTERMATH
Author(s):	Dipl. Eng. Peter MARCHEVKA, PhD., col. ret.; Dipl. Eng. Zuzana DIČEROVÁ
Language:	Slovak
Keywords:	Cyber atac, cyber terrorism, information and communication technologies (ICT).
Abstract:	The information and communication technologies (ICT) have for some time undergone turbulent developments. And it seems we have a period of turmoil ahead. The emergence of a new technology phenomenon brings with it people who will attempt to abuse it for committing crime. Likewise, the terrorists have developed new methods, forms and techniques of ICT, which led to cyber terrorism. The paper aims to demonstrate that today the governments face a particular challenge as communication systems can be attacked in a split second impairing their vital functions. It also explores how the EU and NATO react towards this new threat. Being the member of both organizations, the Slovak Republic cannot afford to stand apart.

2. Experience and knowledge acquired in operations

Title in English:	THE AIR SEARCH AND RESCUE AS ONE OF THE FORMS OF THE CZECH REPUBLIC MILITARY COOPERATION WITH THE INTEGRATED RESCUE SYSTEM
Author(s):	Maj. Dipl. Eng. Janka KOLÁČNÁ KOSECOVÁ
Language:	Czech
Keywords:	Integrated Rescue System, Air Search and Rescue, Rescue Coordination Centre, Sokol W-3A helicopter, Detachable forces and means of the Armed Forces.
Abstract:	The main theme of this article is an Air Search and Rescue performed by the Armed Forces of the Czech Republic. The aim is to clarify the position of the military Air Search and Rescue as a part of the Czech Republic Integrated Rescue System. The article also informs a reader about basics of the Air Search and Rescue execution by military personnel and military assets. The first part includes definitions of the basic terms regarding the Air Search and Rescue. Next, the history and the present state of the Air Search and Rescue are described. The final part of the article describes the type of an Air Search and Rescue helicopter used in the Czech Armed Forces. Moreover possibilities of military helicopters usage in the Czech Integrated Rescue System are discussed.

Title in English:	CIVIL-MILITARY COOPERATION UNIT AND PSYCHOLOGICAL OPERATION UNIT IN THE STRUCTURE OF PROVINCIAL RECONSTRUCTION TEAM LOGAR, AFGHANISTAN
Author(s):	Cpt. Dipl. Eng. Tomáš NOVÁK
Language:	Czech
Keywords:	CIMIC; PSYOPS; PRT Logar; civil-military cooperation; psychological operation; Provincial Reconstruction Team Logar; Logar; Afghanistan; foreign mission; quick impact projects QIP, S-9 branch.
Abstract:	The author of the article describes a purpose, structure, integration and fulfilled tasks of Civil-military Cooperation (CIMIC) and Psychological operation (PSYOPS) units in their functioning in the structure of Provincial Reconstruction Team (PRT) Logar, Afghanistan. The author is concerned not only by the role of CIMIC and PSYOPS in the Staff of PRT but also by

	goals to achieve as member of Mobile Observation Team (MOT). The article is divided into several parts which describe a theoretical frame and purpose of CIMIC and PSYOPS; system of selection and preparation of CIMIC and PSYOPS specialists for foreign mission; integration CIMIC and PSYOPS capabilities into PRT staff process. Next the article describes in details a chain of command and responsibilities within CIMIC and PSYOPS structures in foreign mission.
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3. Foreign studies and experience acquired in operations.

Title in English:	US ARMED FORCES AND THEIR STRUCTURAL CHANGES SINCE THE END OF THE BIPOLAR SYSTEM
Author(s):	Ssg. Bc. Jan SMETANA
Language:	Czech
Keywords:	United States of America, armed forces, units, soldiers, army, air force, navy, marine, headquarters, attack, operation, terrorism, AFRICOM, CENTCOM, EUCOM, SOUTHCOM, PACOM, SOCOM, JFC, NORTHCOM, TRANSCOM, STRATCOM.
Abstract:	The nowadays economic crises and some changes in the global security system make a lot of discussions. The most of them talk about changes in the US armed forces. This article shows the structure of the US armed forces and it's changes. There are some changes of the structure made by the end of the Cold War. Some of them are made by the world transition from the bipolar system to unipolar-one in the end of 80's and followed by multipolar-one of nowadays. This article shows history, context of establishment and the transformation of some parts of the US armed forces. There are some personal and economic transformations in the political-history context. There are also the changes in the geographic dislocation of the US forces in all over the world. These changes reflect the political-security changes in the world.

4. Personnel training

Title in English:	THE CONCEPT OF HISTORICAL AND PRESENT APPROACHES TO EDUCATION AND TRAINING ADULTS IN THE FIELD OF POPULATION PROTECTION
Author(s):	Maj. Dipl. Eng. Jan KYSELÁK, Ph.D.

Language:	Czech
Keywords:	Development, education, genesis, legal standards, population protection.
Abstract:	Education and training of adults have always been one of the major segments of the Population Protection in our country. The tradition of this issue that has never focused only on adults is dated in our country to the middle twenties of last century. The aim of this article is to describe the issue and show the correlation between the specific issue of education and training and different periods that has always reflected political positions of the Czech Republic including its legal predecessors and their priorities in foreign policy relations.

Title in English:	TRENDS OF MILITARY PROFESSIONAL TRAINING TRENDS PROVIDED BY SIMULATION AND TRAINING TECHNOLOGIES
Author(s):	Doc. Dipl. Eng. Vladimír VRÁB, CSc.; LtCol. Dipl. Eng. Ladislav HAVELKA, Ph.D.
Language:	Czech
Keywords:	Constructive simulation, virtual simulation, live simulation, simulation, simulation technologies.
Abstract:	The article describes typical develop simulation and training technologies trends and their typical influence on computer simulation reusing for training. Develop and introduction of simulation and training technologies are defined by three phases. From beginning of simulation and training technologies introducing, though their development to their integration. In conclusion future ways of simulation and training technologies using in Czech Army are described.

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5. Military technologies, economics and management

Title in English:	SYSTEM OF FIELD ANALYSIS IN THE CZECH ARMY
Author(s):	Capt. Dipl. Eng. Elemír KUREJ; 2Lt. Dipl. Eng. Silvia PLUCNAROVA
Language:	Czech
Keywords:	Field Analysis, Sampling, Identification of Agents, CBRN Defence, Protection against Weapon of Mass Destruction, Deployable Analytical Laboratory.

Abstract:	Article provides basic information about Field Analysis like a tool for taking decisions about measures against Weapons of Mass Destruction and against effects of Toxic Industrial Material. Information reflects current status in the Czech Army. In the first part authors try specify place of Field Analysis in CBRN Defence framework. Second part is devoted organization of Field Analysis with emphasis on Sampling and Identification of Chemical, Biological and Radiological Agents. Third part describes personnel and means necessary for Field Analysis and requirements on them. At the end authors suggest how to define right place of Field Analysis in CBRN Defence framework.
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Title in English:	THE QUALITY LEVEL OF SUPPLYING THE CZECH ARMY PERSONNEL WITH UNIFORM
Author(s):	Capt. Dipl. Eng. Michal ZELENÁK; Ssg. Bc. Tatiana MACHÁČOVÁ
Language:	Czech
Keywords:	Authorized accoutrements, uniform discipline, accoutrements service, military uniform, article of dress.
Abstract:	The article present results of a questionnaire survey carried out on the sample in units of the Army of the Czech Republic from 2012 to 2012. The questionnaire was aimed at evaluation of the level accoutrements service from the perspective of military personnel. The first part describes the theoretical background clarify current valid legislation on accoutrements service. The second part presents our results of the questionnaire survey and their own interpretation of results and comparison the quality level of supplying with uniform. The final section offers some possible alternatives development accoutrements service.

Title in English:	UNIT'S TASKS ACCOMPLISHMENT ASSESSMENT
Author(s):	LtCol. Dipl. Eng. Jaroslav MORAVČÍK
Language:	Czech
Keywords:	An assessment, a objective, a task, measures, a budget, a subtask, a deficiency, a redundancy.
Abstract:	A management theory is coming up with new lessons, which are taking advantage of new manners of controls. In future, the presumption of a successful management is a situation awareness relating to a particular term and setting measures based on

	<p>particular possible development prognosis. The article is providing with the possible pattern of a part for its adding to the quarterly assessment of a unit's tasks accomplishment, which is creating in according to currently valid rules. The first part of the article is summarizing conclusions of those rules for the assessment process. By help of the example, the second part is clarifying the purpose of the possible pattern content elements of the tasks' accomplishment assessment. In the end, the article summarizes the all parts of the pattern content, which would be added to the quarterly assessment of the unit's tasks accomplishment.</p>
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Title in English:	SUBMACHINE GUN MK 58 – CZECH LEGEND
Author(s):	LtCol. Dipl. Eng. Jiří MOTÝL
Language:	Czech
Keywords:	Submachine gun, weapon, assault rifle, accessories, modernization.
Abstract:	<p>Last year, held its first delivery of the new assault rifle CZ 805 BREN A1 and A2 for a partial rearmament of the Czech Armed Forces. It will be the biggest rearmament of the essential soldier weapon - assault rifle in the new era of the Czech state. At the same time slowly retire legendary assault rifle called "7.62 mm submachine gun vz. 58 ". The article is divided into introductory section that briefly describes the development of the weapon, followed by the comparison with an assault rifle AK-47. The reason for this comparison is the fact that the other countries of the Soviet bloc in Europe were armed with an assault rifle AK-47 or its license-produced clones. Further, the author states, based on his own experience, the characteristic faults and eventually the weapon upgrades made to improve tactical - technical characteristics.</p>

Title in English:	DIRECTED ENERGY WEAPONS
Author(s):	Dipl. Eng. Libor PALÍŠEK, Ph.D.
Language:	Czech
Keywords:	DEW, HPM, UWB, Electromagnetic, NEC, Vulnerability.
Abstract:	<p>Author deals with electromagnetic threats caused due to Directed Energy Weapons (DEW). The area of interest is focused on HPM (High Power Microwaves) and UWB (Ultra Wide</p>

Bandwidth) as an important part of DEW area. Possible impact on electronic structures which can be part of military systems is considered in this paper. Some practical results achieved during experiments related to assessment of electronic equipment vulnerability is provided with overview of immunity of some equipment to HPM and UWB signals at the end of this study.



1. Review

Title in English:	JOINT OPERATIONAL ACCESS CONCEPT
Author(s):	COL Dipl. Eng. Petr MARKVART, Ph.D.
Language:	Czech
Keywords:	Operational Access, antiaccess measures, area-denial measures, domain, koncept, operational capabilities, joint functions.
Abstract:	The Joint Operational Access Concept (JOAC) describes in broad terms the vision for how joint forces will operate in response to emerging antiaccess and area-denial security challenges. Due to three major trends - the growth of antiaccess and area-denial capabilities around the globe, the changing U.S. overseas defense posture, and the emergence of space and cyberspace as contested domains - future enemies, both states and nonstates, see the adoption of antiaccess / area-denial strategies against the United States as a favorable course of action for them. Due to document's national nature some aspects and terms may differ from the NATO ones. In order to familiarize with the concept the reader needs to study that document as a whole.

2. Current information

Title in English:	MULTINATIONAL EXERCISE LION EFFORT 2012
Author(s):	Dipl. Eng. Zdenek ZEITHAML
Language:	Czech
Keywords:	Air Policing, LION EFFORT 2012, JAS-39 Gripen, Composite Air Operation – COMAO, Beyond Visual Range – BVR, Visual Identification – VID, Close Air Support – CAS, Forward Air Controller – FAC.
Abstract:	The author of an article addresses the multinational exercise LION EFFORT 2012, which took place from 25th March to 5th April 2012 in Sweden. The aim of the article is to inform readers about this exercise and explain all of phases including preparation, deployment and execution of the live exercise, the main goal of this multination exercise, evaluation and redeployment. At first will be described the procedure of preparing and planning of this exercise then the realization, evaluation and the possibility of the multination exercise

	continuation in the future. The article evaluates how this exercise influence on the Czech pilots readiness to performance of the tasks exercise and Air Policing tasks in framework of the North Atlantic Treaty Organization.
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Title in English:	REFLECTION SERVING MILITARY ACTION – THAT’S THE FINABEL
Author(s):	Dipl. Eng. Michal ROČKÁR
Language:	Czech
Keywords:	Finabel; land forces (Army); interoperability; doctrine; study.
Abstract:	The author of the article provides readers with the basic information about the Finabel organization. The stimulation is that the Czech Republic has become the 17th member of Finabel in April 2012. Finabel is the European special military forum opened to all land forces of the European Union member states. The author briefly describes the history of Finabel and lists all of its current member states. Furthermore, he specifies Finabel’s fundamental goals and principles. The structure of the Finabel bodies is depicted in the article and their essential responsibilities and linkages are also described there. At the end of the article, there is a short list and description of Finabel’s products and way of funding of the Finabel’s activities. The article is concluded with the author’s view on potential Czech contribution to Finabel. The article is supplemented with several photographs from the annual Finabel’s committee meeting, the first page previews of selection of Finabel’s products and with a link to the list of Finabel’s studies published from 1993.

Title in English:	HIGHER CONTROL (HICON)
Author(s):	Capt. Dipl. Eng. Frantisek GRMELA
Language:	Czech
Keywords:	HICON, Tactical exercise, Czech Armed Forces Task force ISAF, Training Command - Military Academy.
Abstract:	The author of the article describes location, structure and activity of High Control (HICON), in frame of tactical exercise MESSENGER 2012, which took place in July 16 – 22, 2012 under the auspices of Training Command - Military Academy in Vyskov. HICON unit is a part of directing staff. The unit plays

	<p>higher levels in chain of command for the exercising units. In this case it was operational command level, presented by 173rd Airborne Brigade Combat Team – U. S. Army. Further it was two national levels of command: Joint Operations Centre of the Ministry of Defence of the Czech Republic, and Czech Armed Forces Task Force in International Security Assistance Force. HICON members also organized a pattern of briefings and meetings in English language for the exercising units, similarly to the real situation.</p>
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Title in English:	EXPERIENCES FROM ACTIVITY IN THE NATO STRUCTURES WITHIN THE FOREIGN WORKING PLACE
Author(s):	Maj. Dipl. Eng. Petr MATUŠKA
Language:	Czech
Keywords:	Activity, foreign working place, deployment, ground base air defence, air operations centre, procedures, specialist.
Abstract:	<p>Author of the article provides basic information about his three years of activity on the foreign workplace in the structures of the North Atlantic Treaty Organization - NATO, namely the position of The Planning Officer of Ground Based Air Defence (GBAD) and Theatre ballistic missile defense (TBMD) in the Multinational Air Operation Centre (CAOC) in Uedem (Federal Republic of Germany). The article contains a total of five parts. In the first part, the author states the role, tasks and structure of this organization. In second part he describes the phase immediately before his deployment and after the onset of the workplace and In the third part the activities directly related to his job description. The fourth part is devoted to the social life in his work place and in the final part, the author mentions the exit procedures from the foreign workplace.</p>