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An author's résumé and the official reviews of the PhD dissertation by

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**Logistical support of special operation forces and its development
possibilities**

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THE OUTLINE OF SCIENTIFIC PROBLEM

The necessity of the reactions for new challenges in the promptly changing world is written in many passages. The Hungarian Defense Forces (henceforth: HDF) has not disregarded these changes anyway. After a defensive revision in 2003, it established the Special Operations Capability as a result of reorganizing military forces. If the constitution, way of thinking changes and adoptions have their way not too short period, would be needed the modernizing and mature consideration of the logistic support principles, methods and regulations. If these facts are missing, the executed changes would be brought temporary results, however in middle- and long time periods would be suffer losses. We can avoid this in that way; take the logistic support system into consideration. The aim did not change: provide the logistic support in highest level with lowest expenses possible. The new theories, regulations, adoptions, the methods and technical possibilities in the logistic support can help for the sake of the cause. There are new warfare principles in the theatres of war, slide ahead the fundamentally changes in all categories of combat fighting. Therefore the organization and logistic system of the military forces are changing fundamentally also. The basic scientific problem is that the actual form of special operational ability's theory and its practical application do not serve the advanced claims. On the strength of facts above, in my view the examined topic needs scientific founded analysis, ascertaining, consequences and solving proposals. In 2001, it was a heresy to mention special operational capability. Nowadays we do not dispute the reason for the existence of Special Forces. In this dissertation I would like to verify the necessity and carrying out of special logistic support related to Special Forces.

RESEARCH HYPOTHESES

When processing my research theme I formulated the following hypotheses:

- The supporting system of Special Forces has substantial different requirements than usually. HDF need to expand the conventional logistic adaptations in the interest of suiting the Special Forces supporting requirements.
- The logistic system of the HDF and the direct CSS units for Special Forces are not fully able to execute the Special Forces supporting, so there is incapability in the combat service support system of Special Forces.
- The logistic system of the HDF needs a reorganizing on tactical level to be able to support the special operation effectively.

- The new, scientists founded line has an impact on the special forces logistic supports doctrine principles, what results the re-interpretation of the special operation supporting fundamentals. In addition, the changes in the organization develop the co-operation capabilities of the logistic system in the Hungarian Army.
- If there is a harmony between the training of logistic specialized soldiers and the drills of Special Forces, the special operational abilities will be improved.
- The civilian strategy-improvements are directly usable at the efficiency increasing of the Special Forces logistic system.

RESEARCH OBJECTIVES

My aim of research is to establish the truth about the HDF logistic support system does not have enough efficiency to support the special operations. My goal is to analyze the adaptation possibilities of the special operation support system in home conditions. I determine those development possibilities, principles and domains, which results effective special operations logistic support. I try to reveal, how the HDF logistic support system can serve the Special Forces claims and requirements. In the interests of this, I reveal the principles blocked by doctrines how appear in the special operations logistic support. My aim to follow is to research military and civilian logistic solving which increases the effectiveness of the Special Forces logistic system in the HDF.

RESEARCH METHODOLOGY

I applied several of the specific (partial) research methods as the processing of the theme requires a historical context, an analysis of the existing and functioning systems and structures, and their comparison to similar systems and structures of other countries. I tried to provide an overview of the development processes of the United States Army Special Operation Forces in the evaluated countries comparing them to the development of the Hungarian Special Operation Forces. From the theoretical-logical research methodology I applied primarily the technique of analysis for disclosing the characteristic features of special operation's logistic systems so that I can gather exact and precise information on the current state of affairs. After identifying and systematizing requirements and expectations of both system, using the technique of comparison I disclosed the areas where logistic support system does not meet special operation forces requirements. I utilised the following research methods in particular:

- I observed the activities, and the logistical support of the special operation forces. as a participant;

- I studied Hungarian and foreign doctrines, policies, studies, PhD thesis, notes, monographs, national and international scientific publications, and scientific web providers;
- I processed expert interviews, and analyzed the information;
- I analyzed the logistics support requirement of special forces;
- I compared the logistics support elements and capabilities of the Hungarian Special Operation Forces, and United States Army Special Operation Forces (hereinafter referred to as: USARSOF).

A BRIEF DESCRIPTION OF THE ANALYSES

Theoretical and historical survey

In the chapter I have review the history of the special tasked military units and the logistic support. I was emphasized occupying the history of the Hungarian special operation subunit. I revealed the view of supporting chain effect for Special Forces. I scrutinized the changes of logistic system in the HDF and I revealed the influences of changes at the Special Forces. I have drawn up the basic consequences at the Special Forces.

The role of the special forces in modern warfare

I made the basic principles of Special Forces employment known. It was necessary, because I promoted the supporting requirements of Special Forces in this form. I was emphasized occupying the special operations units in HDF and the US Army Special Forces. With review the unit's organization I have built foundation for comparing analysis the ability-parts.

The logistic support of the Special Forces

In the chapter I have worked up the logistic support of the Special Forces in the Hungarian Army. I was emphasized occupying the logistic requirements of the Special Forces. I revealed the effects of doctrines back screen at the Special Forces. I have made the consequences of analysis known. I described the logistic support system of the Special Forces in the US Army. I explained the special operational characteristics in the logistic support. With expounding of organizations I have built foundation for comparison of abilities. Used compared analysis I examined the appearing of ability-parts. Using the results of analysis and comparing, I re-defined the Special Forces logistic support in the HDF.

The development of the specified operations logistic system in order to view the methods of strategy production

I have made the contact points of the military and civilian strategy production known. I reviewed the usable modes of the competition strategies in order to develop the Special Forces. I revealed the effects of strategies in special operations. I determined the life-terms of Special Forces and its place on

the life curve. I have drawn up the probable effects of the specified logistic methods in special operational capabilities.

SUMMARISED CONCLUSIONS

During the analysis of theoretical back screen I inquired into the studies and doctrines of Special Forces. Between the analyzed works there were some case studies, dissertations, foreign and Hungarian doctrines, lot of special articles from abroad, expertise and the works of the main logistic experts from Hungary. The main think was that I examine the supporting systems in point of the special operations, and try to explore new relations. Historical overview about the special operation was particularly difficult when trying to reveal aspects of their logistics. The sources of the mostly subunits and the operations dealt with the logistical support could only be inferred from indirect method. Analysis of today's special operations environment to advance my expectations proved, at least in terms of the abundance of resources: a large amount of resources available for any problems. A relevant and credible sources choosing to reflect the reality I tried, so I decided to take my doctrine is based. It also offered the possibility that funds related to logistical support could be compared with other sources. Challenge to the solution of the problem is that the information related to the subject classified, including those of an open PhD thesis can not be relied upon. The special operations-specific mapping of logistical support tasks at different levels, different problems raised. Because of the complexity of the problem, I decided to build on the tactical level logistics support system to examine the doctrinal framework. The logistics strategy development methods for domestic and international literature proved to be particularly rich. The study sought literature when I noticed that the vast majority of the new edition of articles Anna SALAMON HUSZTY, Attila CHIKÁN and his research and publications can be connected. The decades following the turn of the millennium the foundations of later publications are not refuted, but they narrowed their investigation, according to scopes. The first phase of my research I have done so, as a starting point, the authors have treated the results. It occurred at the beginning of the millennium, then completed with default values, so I tried to create new value for the logistical support of Special Forces. The mentioned topics, as well as management science issues was extremely interesting to consider the special operations forces' perspective. This is a reference to research topics of domestic and foreign literature hardly found. The inquiry sought work in the Six Sigma methodology, logistics and marketing Zoltán DOMBORÓCZKY applicability of the thesis and Árpád FODOR Value Engineering Analysis of the application. In the course of my research, in addition to the strategy management approach is the approach in the newly emerged technology management, which is testing a new aspect to the subject analysis.

Historical experiences prove that in every age, there were military organizations that carried out their tasks in different culture methods of warfare that age. Based on analysis of projected trends in history,

and analysis of events in the near future it is expected that the use of special-purpose subunits are likely to increase, which draws other potential developments in relation to the special operations forces. The historical background summary of examining the Hungarian related data shows that in 2008 began special operations capability development only closely related elements spread out; a working group of representatives supporting elements were not present. Specialized logistics support requirements for special operations capability - doctrine - nine years later appeared to support the planning application development at a time not yet started. It has not been determined nor the sponsoring organization skills requirement. I came across during the military logistics historical background study of any data from which I conclude that support logistics problem involving the Special Forces professionals since the 2000s, known in Hungary. Examination of the national literature background proved that the scientific value of work in special operations-specific logistical support Hungary does not deal with: So the thesis replace existing since the beginning of the development of special operations capability shortfalls, Hungary was first named specific logistics requirements of the special forces. After searching I found the case studies to the period following the change of regime, a case study on the scientific value of the organization's logistics development in the history of HDF logistics is not available. The lack of scientific worth of military logistics case studies identified new areas for research.

The special operations capability, application frameworks, the mission and the Special Forces we've gone through the presentation of findings to solve small group is able to use strategic task. This finding is of utmost importance to attach logistics, as a result of the application of a conventional small headcount costs (sub) unit is a fraction of the cost of the operation. In addition, the expected result is the same rate that may be higher, so the cost-effectiveness requirements more closely met. Examination of the US special forces reinforced in the idea that the capabilities of a direct comparison does not make sense, but the individual skill items, and special operations support organization basic principles deserve special attention. After a short, special operations outlook also stated that due to the lack of resources to support the system of Special Forces far-reaching conclusions can not be drawn, however, support the idea of their ability Romanian and Slovak support team is remarkable.

After analyzing the logistics support system is an outstanding achievement that American thinking about the Special Forces operation much emphasis on armed forces skills, a high level of doctrinal recognizes conventional logistics support system capabilities of the lack of support in respect of Special Forces. In addition, special operations forces logistics support systems based on conventional forces logistics support system. The apparent contradiction resolve organizational elements, which run the special operations-specific support for integrating responsible for supporting conventional systems, as well as special operations commander is capable of independent support systems are basically the early stages of operations. After testing system based on specific operational aspects of logistics support to the conclusion that the Special Operations forces have changed the focus of the same logistics support system is looking for a solution that provides the logistical support conventional

forces. Supporting the full spectrum of special operations capability requires very diverse skill elements. Currently HDF is only able to provide a combination of the elements of joint capabilities. The doctrinal background investigation and comparison of the existing sub-capacity support suggests that the HDF 2nd Special Operation Regiment (henceforth: 2. KRE) logistics support subunits do not provide the basic requirements set forth in the fulfillment of control. I conclude that the structure of the logistics support forces can not effectively respond to the unique operational challenges. I conclude that the Special Forces in support of a new approach are needed. It is also stated that the HDF support capability elements of special operations in support of specific requirements mainly - but not decisively - cover. The provision of Special Forces capabilities to enhance the integration of organizational elements can provide. They are able to plan, organize and manage the work of the support forces and effectively integrate specific support needs of special operations in support of the conventional system. The interoperability by increasing the efficiency of such support Special Operations Group continued to increase the number of national operations to be proposed and seconded, thus increasing its operational capability. I wish to emphasize that the proposed changes, it can be achieved without a complete reorganization significant growth potential. The special operations in support of specific strategy and operational both developed tactical level, structured Regulations wallpaper creation, management appropriate to the level of detail. The HDF support doctrine and ability to set out the doctrine of Special Operations logistical support laid 2. KRE, 34th "Bercsényi László" Special Forces Battalion (henceforth: 34. BLKMZ) application of principles provides a good foundation. The principles are still missing in the development of operational-level logistics controllers can be replaced. In addition, I think worth considering that the special operation in order to prepare for specific logistic support, studies - training (henceforth: KFKO) a system of cross-training in special operations-specific basis, we integrate training.

Remarkably can be judged by the practice of the United States Army in non-special forces, tactical- and operational-level support organizations of their tasks is basically the early phase of operations is planned for after the construction of the theater logistics network to support the tasks of the special forces of conventional support systems they will take over. The Special Forces support this kind of organizational principle of the Hungarian regulatory, and organizational background can not be identified. The use of the concept by identifying has new opportunities for the development of the Hungarian Special Forces capability. The study of literature, and after completion of the analyzes conclude that the system of logistic support for US ground forces, special operations forces are not published in the Hungarian language publications are not affected. Dealing with this part of the thesis thus replace existing since the beginning of the development of special operations capability shortfalls, Hungary was first named specific logistics requirements of the Special Forces.

The application framework, special operations requirements, analysis and comparison of test support systems after came to the conclusion that both systems examined in detail the support provided by the special forces of clearly identifiable pillars of the armed forces is not logistical support. The addition

of joint capabilities, advanced materials- and equipment, special service reception ability of special operations in support of specific subunits of the integral authority, and purchasing special significance. This finding determined the specific logistical support special operations keystones. The dissertation introduced a new concept of special operations-specific logistical support.

The study and analysis of the ability to compare the elements involved in logistics systems developed further after the area was identified as the creation of specific organizational elements which provide logistical support integration with the special operations. The necessity for organizational item was created from the finding drove down to the HDF system of joint logistics support capabilities cover the requirements expected of them, so many- support the organization and in terms of basic function required the involvement of a variety of military organization. An effective support organization is impossible without a common understanding of the special operations to support specific integration with conventional body, as well as a common understanding of these organizational elements serve in my opinion, by far the special operations.

After examining the logistics support system and HDF 2. KRE came to the conclusion that the logistics support sub-system tasks as defined by the relevant regulators to implement logistics (logistic support of the full spectrum of operations) can not do. To solve this problem I can imagine two options: require significant support capability development in order to support special operations forces subunit doctrinal meet the requirements, or be stopped supporting the subunit full logistics support obligation. In my view, however, none of the ideas can be successful without the partial re-interpretation of the special operations HDF-specific logistic support, which is explained in detail in the relevant chapter.

Summary of the identified improvable areas:

- At the strategic level: support capabilities covering the full spectrum of (multinational) the development of special operations, and developing a system to support special forces especially in the early phase of operations.
- Operational level: organizing the logistics capabilities of conventional niche capabilities in support of special operations specified in the doctrinal background of specific support functions Regulations background of the development, preparation of Special Operations Logistics Support Doctrine.
- Tactical level: the development of the implementation of specific support functions to integrate specific support requirements for special operations in the conventional system capable of supporting organizational special operations elements specified in the doctrinal background.

During the study of strategic planning methods I came to the conclusion that the results of the area can be used for your own research in my field. I used the steps in the strategy-making during the research. On this basis, I used a sought literatures, case studies, and practical experience of its own, which I was able to build a strategy development process. Domestic Regulations introduced by

analyzing the background to what the special operations expects from of the logistics support and expert interviews confirmed that. The international outlook occasion examined how other countries respond to challenges in support of special operations. Then I determined the position of the special operations HDF capability. After processing the available historical sources, defense and strategic studies have attempted the resulting data graphically. As a result of this analysis revealed that the special operations capability is a potential time-graph shown similarities in the product life cycle diagrams. The product life cycle using graph theory studied the possibilities for the development of Special Forces capability, logistical support raising the standard in respect of the calculation can be followed by an exploration of strategic variants. Based on the analysis of the results of that strategy development methods can be involved in the process for the development of logistics support. With regard to the special forces of logistical support to the so-called growth strategy it can be enforced most, but can be used for multi-element management strategy. As a result of the research revealed that the application of the theory of military science has occurred in respect of the practical application of Six Sigma theory. Also I pointed out that the examination of the application of theories of military strategy in the business world (and vice versa) continues the theme of today's well-known strategy research programs. I first used the results of management disciplines to the Hungarian special operations skills development. In the comparative analysis, as well as methodological background in search of confirmed formulated by Árpád Pohl idea that in the comparison of military systems there is no single methodological base. I think that the benchmarking methods can serve as a good basis for the development of a comparative methodology, although it should be emphasized that the method is intended to competitor analysis. The comparative technique to confirm the identification can see that the idea that the results of the civil logistics would be a mistake to ignore the thinking of military logistics.

NEW SCIENTIFIC RESULTS

- 1. It was verified that the current doctrinal and organizational background is not able to encompass the full spectrum of special operations, special logistics support capability, so a shortage of skills in the specific needs and capabilities of the HDF logistics support to special operations.**
- 2. I adopted procedures of logistical support to the US Army to Home environment, Special Operations forces.**
- 3. It was verified through a special operations-specific logistics support system requirements are significantly different from traditional need for expansion of conventional logistics procedures, special operations determined the specific logistical support built.**
- 4. Proved that the special operations according to specific requirements for basic logistic support organization doctrinally re-thinkable in perfect time term-, availability, and desirability and**

proved a special operations-specific cross-training logistical location and the role of training - preparing - teaching - education system.

5. I firstly applied, and the proven methods of management sciences and the results of the usability of the Hungarian special operations capability development.

RECOMMENDATIONS

The problems outlined in the analysis, evaluation of the Hungarian Special Forces domestic military science literature have not dealt with since its creation. In this subject published by Hungarian or Hungarian professionals study logistics, specialized articles and analysis not found. This is confirmed in the belief that the chosen topic will be transferred to the current issues of today, therefore, I consider niche thesis work. This paper contributes to the development of support for Special Forces, raising the capability of directly supporting special operations forces soldiers preparing, HDF cooperating logistics systems improving, adapting to civilian logistics processes. The first step is to resolve the problem with the pointing skill shortages. It is possible to search for the right solution, the Special Operations Commanders operational freedom to expand thereafter.

In my view, the results can be used directly in the development of the scheme, which provides another opportunity for the Hungarian armed forces for further engagement search. Taking into account the contents of the thesis can be used for military logistics undergraduate degree program (BSc), Master's degree in military operational logistics specialist (MSC) as well as professional and career development courses logistics topics as well. The thesis basic ideas can be used for other special-purpose policing and law enforcement agencies planning- logistics support, organizing as well. Recommendations may help a logistics and non-logistics-level professional work of staff that is responsible for Special Forces use of medium- and long-term planning. The thesis may help support the special forces of change in the attitude of logistics. The research may be based logistics support for its own role in the organization of special operations.

THE PRACTICAL APPLICATION POTENTIAL OF THE RESEARCH FINDINGS

The research results can be used directly:

- the role of special operations HDF-taking in progress;
- HDF possible to support special operations leading national role in organizing
- Standard procedure-specific support for a coherent, special operations, and logistics support to create doctrinally background.

The results of the research can be applied additional security cooperation fields. They can be used in the context of setting up the logistics related value added cooperation of the V4 countries in the development of joint capability development and cooperation established in the framework of CEDC combined logistical support group.

Training - preparing - in education: the dissertation is using the education-, teaching-, vocational training one of the special operations, special operations and specific support for the essence of military logistics expert team of professionals, which can be a significant step change in the approach.

Organizational Development areas: the thesis formulated ones in organizational development can be enhanced by using rational and economical use of resources; increase the integration capacity of the support system can be installed. Experience with the development capacity avoided by processing the backlog of logistics support system, a new future capability development task. After the establishment of the proposed sub-organization development, to ensure compliance with the special operations troops are no longer suitable for the system. Using their knowledge, complete logistics knowledge, all existing educational and training methods are quickly "tangible" in special operations essence, and the dedicated logistics specialist senior soldier.

Other areas: results of the dissertation of other special-purpose body organizing support may also be used, especially if the objective is the development of a self-supporting unit. In addition, my research could provide a basis to examine the use of military-related management disciplines.

LIST OF PUBLICATIONS BY THE PHD STUDENT

(In order of appearance)

1. BODORÓCZKI, János: Új kiképzési követelmények a különleges erőket támogató katonák számára, Bolyai Szemle, 2010. XIX. évf. 4. szám, pp 65-76
2. BODORÓCZKI, János: A stratégia alkotás módszerei és alkalmazása, a különleges erők önálló logisztikájának megvalósításában, Honvédségi Szemle, 2010. 64. évfolyam 4. szám, pp 15-17.
3. BODORÓCZKI, János - TATÁR Balázs: A különleges erők önálló logisztikája - Stratégia és minőségbiztosítás, Országos Tudományos Pályázat – MH ÖHP TKH TT, 2010, Székesfehérvár
4. BODORÓCZKI, János: Logisztika és a különleges műveleti csoport műveleti területen, Hadmérnök, 2010, V. Évfolyam 1. szám, pp 173-179.
5. BODORÓCZKI, János: Gondolatok az aszimmetrikus hadviselés logisztikai támogatásáról, Bolyai Szemle, 2013. XXII. évf. 1. szám, pp 119-136.
6. BODORÓCZKI, János: A Magyar Honvédség a XXI. Században (gondolatok az új kihívásokról), Hadtudományi Szemle, 2013. 6. évfolyam 2. szám, pp 1-9.

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11. BODORÓCZKI, János: Az Egyesült Államok szárazföldi haderőnem különleges erőinek támogatása, Hadmérnök, 2014, IX. Évfolyam 2. szám, pp 158-165.
12. BODORÓCZKI, János: A magyar különleges erők logisztikai támogatása, Hadmérnök, 2014, IX. Évfolyam 2. szám, pp 166-176.
13. BODORÓCZKI, János: A logisztika története, Hadmérnök, 2014, IX. Évfolyam 4. szám, pp 75-85.
14. BODORÓCZKI, János: A különleges művelet specifikus logisztikai támogató rendszer fejlesztése a logisztikai stratégiaalkotási módszerek figyelembevételével, Hadmérnök, 2015, X. Évfolyam 2. szám, pp 122-134.
15. BODORÓCZKI, János: Gondolatok a Magyar Honvédség logisztikai rendszerének kihívásairól, és az integritás fokozásáról, Honvédségi Szemle, 2015/5, pp 99-104.

Presentations

16. Proceedings of the new challenges in the field of military sciences 2010 7 th international scientific conference - A különleges erők önálló logisztikája, Budapest, ZMNE, Hungária krt. 9-11, 2010, szeptember 28-30.
17. Haza szolgálatában, Budapest, Nemzeti Közszolgálati Egyetem, Hadtudományi és Honvédtisztképző Kar, Hungária krt. 9-11, 2013. október 25.

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National University of Public Service-Faculty of Military Sciences and Officer Training, Instructor (2017-)
HDF „Ludovika” Battalion Operation section leader (2015 - 2017)
HDF „Ludovika” Battalion Chief of Staff (designated) (2013-2015)
HDF „Ludovika” Battalion Operation and Training section leader (2011-2013)
HDF „Ludovika” Battalion Company Commander (2011)
HDF 34th „Bercsényi László” Special Operation Forces Battalion Logistic Support Company Commander (2006-2011)
HDF 32th „Budapest” Guard Regiment Military Police Platoon Commander (2003-2006)
HDF 101th Artillery Brigade Battery Commander (2001-2003)

Theater experience

Advisor Team Afghanistan / Advisor of Afghan Border Police G3 chief, Mazar-e-Sharif, (2014)
Provincial Reconstruction Team / Logistic Platoon Commander, Phol-e-Khomri, Baghlan, (2004)

Studies

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