

NAUKI O BEZPIECZEŃSTWIE / SECURITY STUDIES

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RECOMMENDATIONS FOR IMPROVEMENT OF REGULATORY AND LEGAL SUPPORT OF AUTOMATION AND DIGITAL TRANSFORMATION OF BUSINESS PROCESSES OF THE MILITARY ACCOUNTING OF CONSCRIPTS

1. Introduction

Digitalization in the modern world is a global process caused by the rapid development of information technology, microelectronics, and communications. At the same time, the main direction of society transformation is digitalization, which is based on the total implementation of information technology and focused on the deep transformation of products, business, and operational models of interaction between users and service providers. The main digitalization advantages are related on dynamic approaches of data using and the creation of digital platforms, which increases the reliability of information and efficiency in accessing and processing information.

In the state-legal sense, digital transformation can be considered as a policy and process of state influence on society as a whole, its institutions, the apparatus of state itself, the economy and business in order to implement digital information and communication technologies in their vital activities¹.

Today, digital transformation is a business strategy in which technology provides innovation and creativity, based on which companies improve the efficiency of their operations.

In turn, the introduction of digital technologies in the processes of state government and society, the rejection of paper media, their subsequent replacement by electronic media are priorities for reforming the state, including in the field of defense, in particular the functioning of the system of military accounting of conscripts.

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¹ V. Marchenko, *A Concept and Legal Providing of Digital Transformation in Ukraine*, „Legal Scientific Electronic Journal” 6(2019), p. 290.

The last decades of the XX and the beginning of the XXI century are characterized by the transition of the armed forces of the most militarily advanced countries of the world to the automated control of troops (forces) and weapons. The armies of almost all leading states are armed with automated control systems for troops (forces). Automated control of troops and weapons in close to real time, and a single information environment for management decisions on the use of troops (forces) and weapons have become a decisive factor in achieving success in combat (operations)².

The results of practical activities on staffing troops (forces) during the mobilization in 2014–2015 revealed a number of problematic issues in the functioning of the military accounting lifsystem that affect the effectiveness of the process of staffing troops (forces), which is the basis of combat potential of the Armed Forces of Ukraine³.

This problem is related to unsatisfactory indicators of efficiency and reliability of information on the available total human resources in the state and conscripts in particular. The main reason for the decrease in the efficiency and reliability of military accounting data with personal-qualitative and quantitative indicators circulating in the military accounting system, among others, is the lack of the necessary level of automation of business processes of conscripts carried out in its elements.

In addition, the analysis of the results of practical work on the introduction of modern automated information and telecommunication systems in the Armed Forces of Ukraine, in particular the Unified State Register of Conscripts, once again confirms the growing dependence of automated systems on the quality of their training, including the development of training standards administrative bodies of this system⁴.

So, the urgency of business processes for military accounting of conscripts is the need to protect the sovereignty and territorial integrity, which is the highest constitutional⁵ function of the state and the cause of the entire Ukrainian people on the one hand, and provide citizens with appropriate services to access information that contained in information resources of the state to exercise their constitutional rights and freedoms on the other.

The issue of regulatory and legal support for the automation of military accounting of conscripts has been considered in the scientific works of young

² L. Masliuk, P. Stuzhuk, O. Chelobitchenko, O. Pravdyvets, *Problems and recommendations for the creation automated control systems troops (forces) for Armed Forces*, „Modern Information Technologies in the Sphere of Security and Defence” 2016, no 2(26), pp. 63–73.

³ A. Pravdivec, *Analysis of fact rs that affect the functioning of the military registration of citizens of Ukraine*, „Collection of scientific working National Academy of the State Border Guard Service of Ukraine” 2016, no 1(67), pp. 223–229 (http://www.irbis-nbuv.gov.ua/cgi-bin/irbis_nbuv/cgiirbis_64.exe?).

⁴ O. Pravdyvets, V. Kholin, *Methodology of training administrators of it-administration bodies of the unified state reserves register*, „Scientific notes of KROK University” 2020, no 3(59) (<https://snku.krok.edu.ua/vcheni-zapiski-universitetu-krok/article/view/327>).

⁵ *Constitution of Ukraine*, <https://zakon.rada.gov.ua/laws/show/254%D0%BA/96-%D0%B2%D1%80#Text>.

scientists⁶ but the problem of implementing tasks for automation and digital transformation of business processes for military accounting of conscripts at the present stage is the lack of necessary legal norms that would provide an opportunity to qualitatively perform operational tasks defined by strategic planning documents⁷.

The complexity of the regulatory support of these processes is to determine the legal relationship between the citizen and the automated system that performs the functions of the state. That is, in essence, is an element of the electronic state. Therefore, the purpose of this publication is to develop recommendations for improving the regulatory and legal support of automation and digital transformation of business processes for military accounting of conscripts.

2. Substantiation of recommendations

The system of military accounting of conscripts⁸ – defined by law a set of agreed by the purpose and objectives of state bodies, enterprises, institutions and organizations that keep military accounting and ensure its operation using process automation and using the necessary databases (registers) defined by law.

The functioning of the military accounting system is characterized by the exchange of accounting information about conscripts between the elements of the system in certain forms in a timely manner. The exchange of information between the elements of the system is carried out by means of written (paper) messages, the forms of which are determined in the order of organization and maintenance of military accounting of conscripts.

At the current political and legal stage, the process of automation and digital transformation in the field of military accounting is carried out in the context of the introduction of the Unified State Reserves Register in the activities of local military authorities.

The Unified State Reserves Register⁹ (Register) is an automated information and telecommunication system designed to collect, store, process and use data on conscripts, created to ensure military accounting of citizens of Ukraine.

⁶ O. Pravdyvets, *Regulatory and Legal Support For the Creation and Operation of an Automated Information System For Military Accounting of Citizens of Ukraine*, „Collection of Scientific Works of the Center for Military and Strategic Studies of the National Defense University of Ukraine” 2015, no 3(55), pp. 130–132.

⁷ *Decision of the National Security and Defense Council of Ukraine of May 20, 2016*, „On the Strategic Defense Bulletin of Ukraine” 2016, no 240 (<https://zakon.rada.gov.ua/laws/show/n0006525-16#Text>).

⁸ *Resolution of the Cabinet of Ministers of Ukraine dated 07.12.2016 № 921I „On Approval of the Procedure For Organizing And Maintaining Military Accounting of Conscripts”*, <https://zakon.rada.gov.ua/laws/show/921-2016-%D0%BF#Text>.

⁹ *Law of Ukraine „On the Unified State Reserves Register”*, <https://zakon.rada.gov.ua/laws/show/1951-19#Text>.

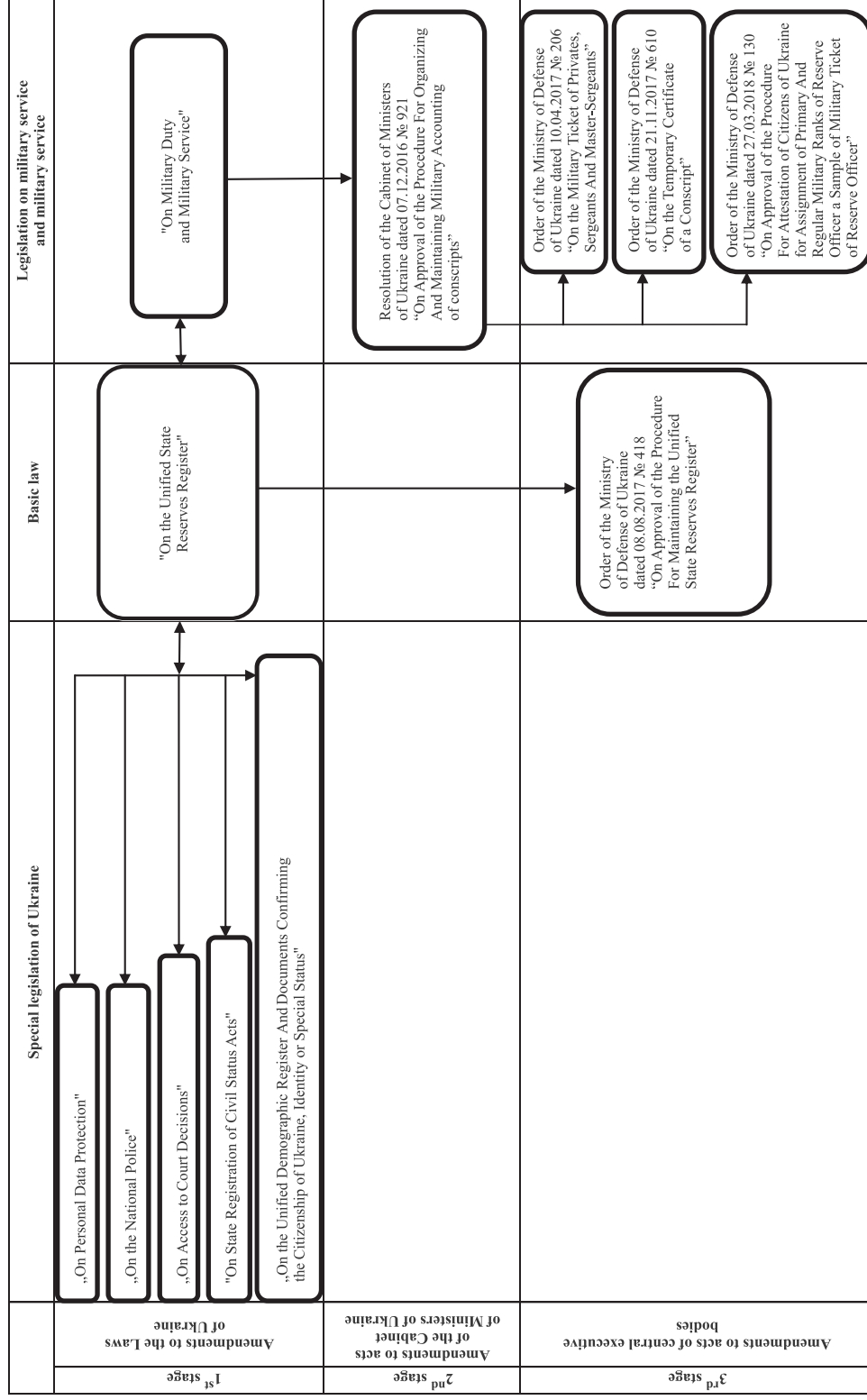


Fig. 1. Methodical Approach on improvement of normative-legal acts on automation and digital transformation of business processes of military accounting of conscripts

The main tasks of the Register are:

- keeping military accounting of Ukrainian citizens - conscripts;
- planning and execution of mobilization measures, conscription for military service, admission to military service under a contract;
- information provision of persons discharged from military service who are entitled to a pension and members of the families of deceased servicemen with information on military registration.

However, this system needs improvement, in particular:

- integration with other state registers to automate the process of obtaining information on changes in military registration of conscripts from state registers;
- automation of information exchange processes between the portal of service solutions „Diya” and the Register;
- providing citizens with access to information resources of the Register through the portal „Diya”;
- creation of an Electronic Territorial Recruitment Center (E-TRC);
- creation of an electronic military accounting document.

According to the results of the analysis of normative-legal acts it was established that for the organization of practical realization of perspective directions of development of the Register it is necessary to carry out improvement of normative-legal acts.

It is proposed to improve the regulations in three stages. At the first stage – to amend the Laws of Ukraine, at the second stage – to amend the acts of the Cabinet of Ministers of Ukraine, and at the third stage – to amend the orders of the Ministry of Defense of Ukraine, which are subject to state registration.

In the final phase of the third stage to make changes (rework) of the documents defining features of conducting military accounting of conscripts taking into account automation and digital transformation of business processes of military accounting of conscripts which are carried out directly in TRC, as well as training of staff of administrative bodies and maintenance of the Register.

A methodological approach to improving regulations on automation and digital transformation of business processes of military accounting of conscripts is shown in Figure 1.

3. Recommendations

To ensure the implementation of automation and digital transformation of business processes of military accounting of conscripts, it is proposed to amend the basic Law of Ukraine „On the Unified State Reserves Register” to make the following changes:

- extend this law to conscripts;
- to clarify the tasks of the owner and administrator, as well as the bodies of administration and maintenance of the Register;

- determine the tasks and the list of information provided by the state bodies to the Register in an automated mode;
- provide citizens with access to accounting information contained in the Register through the online information portal;
- to amend the Law of Ukraine „On Military Duty and Military Service”¹⁰ regarding the definition of state bodies and the list of information provided to the TRC;
- to make changes to the special laws of Ukraine on the definition of information provided in automated form state registers to the Register, while the list of this information is clearly consistent with the list of data defined by the basic Law of Ukraine.

In the act of the Cabinet of Ministers of Ukraine, which determines the procedure for organizing and maintaining military accounting, make changes to the procedure for use by state bodies and territorial recruitment centers during the exercise of their powers of images of military accounting documents. In addition, authorizing the Ministry of Defense of Ukraine to determine the forms of electronic images of military accounting documents.

In the act of the Ministry of Defense of Ukraine¹¹, which regulate the procedure for maintaining the Register, determine the procedure for obtaining information from certain state registers and exchange information with the portal of service services „Diya”.

In the acts of the Ministry of Defense of Ukraine¹², which establish the forms of military accounting documents of conscripts, determine the forms of their electronic images.

4. Conclusion

The implementation of these recommendations will provide an opportunity to create a legal framework to:

- integrate the Register with other state registers and improve the reliability of accounting information;
- automate the work of the TRC and give up „extra” paper documents;

¹⁰ *Law of Ukraine „On Military Duty and Military Service”*, <https://zakon.rada.gov.ua/laws/show/2232-12#Text>.

¹¹ *Order of the Ministry of Defense of Ukraine dated 08.08.2017, no 418 „On Approval of the Procedure For Maintaining the Unified State Reserves Register”*, <https://zakon.rada.gov.ua/laws/show/z1327-17#Text> 418.

¹² *Order of the Ministry of Defense of Ukraine dated 10.04.2017, no 206 „On the Military Ticket of Privates, Sergeants And Master-Sergeants”*, <https://zakon.rada.gov.ua/laws/show/z0581-17#Text> 206; *Order of the Ministry of Defense of Ukraine dated 21.11.2017, no 610 „On the Temporary Certificate of a Conscript”*, <https://zakon.rada.gov.ua/laws/show/z1511-17#Text> 610; *Order of the Ministry of Defense of Ukraine dated 27.03.2018, no 130 „On Approval of the Procedure For Attestation of Citizens of Ukraine for Assignment of Primary And Regular Military Ranks of Reserve Officer And a Sample of Military Ticket of Reserve Officer”*, <https://zakon.rada.gov.ua/laws/show/z0507-18#Text> 130.

- reduce, and in some processes eliminate, the influence of the human factor and the corresponding corruption risks;
- provide citizens with access to credentials through an online information portal;
- create an E-TRC;
- create an electronic military accounting document.

In turn, the creation of E-TRC will provide an opportunity.

- to make people's lives easier – to exercise their constitutional rights without visiting state bodies (get rid of queues and bureaucratic delays), gain access to their personal data;
- reduce corruption risks – minimize contacts with employees of territorial recruitment centers, have access to all information on military service on the basis of which appropriate decisions are made on conscription or non-conscription, training (verification);
- to improve the general state of military accounting – to increase the efficiency and reliability of personal and service data, to update the quantitative and qualitative characteristics of the reserve of human mobilization resources to ensure the staffing of the Armed Forces of Ukraine and other military formations.

Further areas of research may be issues related to:

- definition and construction of the service infrastructure of the Register under the condition of integration with other state registers;
- improvement of special software of the Register;
- improvement of a comprehensive information security system;
- improvement (development) of methods of realization of tasks by bodies of administration and maintenance of the Register;
- development (improvement) of standards and methods of staff training of administration bodies and maintenance of the Register.

In addition, other issues related to the digitalization of conscription military business processes can be explored.

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SUMMARY

The article is devoted to the study of the legal aspects of automation and digital transformation of military accounting of conscripts. Based on the analysis of legal acts and prospects for the development of information infrastructure of the Ministry of Defense of Ukraine, recommendations have been developed to improve the regulatory and legal support of business processes of automation and digital transformation of military accounting of conscripts. A methodological approach to improve regulations on automation and digital transformation of business processes of military registration of conscripts has been developed, which provides for three stages. At the first stage – it is proposed to amend the Laws of Ukraine, at the second stage – it is proposed to amend the acts of the Cabinet of Ministers of Ukraine, and at the third stage – it is proposed to amend the orders of the Ministry of Defense of Ukraine subject to state registration. The implementation of these recommendations will provide an opportunity to create a legal framework for the automation and digital transformation of military registration of conscripts.

KEY WORDS: automation, digital transformation, military accounting of conscripts