ENSURING INFORMATION SECURITY OF A SPECIAL GEOINFORMATION PLATFORM

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ABSTRACT

In the modern world, information technologies and systems play a special role in the life of mankind, including in ensuring the security and defense of the country. For these purposes, the geographic information system (GIS) occupies a very important place. GIS is a system designed to collect, store, analyze, and present spatially oriented information about objects. GIS developers are often puzzled by improving the functionality of the system, and do not attach much importance to information security and data protection stored in the system. Although often such systems contain information that is classified as confidential or for official use. In this regard, there are certain difficulties in the operation of the system. These problems include the difficulty of taking into account the specifics of working with map information to ensure security measures. Mandatory components of GIS, such as the database management system, operating system, and servers have their own protection, but integration with GIS requires clear planning, taking into account the tasks that the GIS solves and taking into account the functionality as well as the number of users. GIS intended for military departments under the country’s defense capability law must be certified according to ISO 15408 for compliance with information security requirements.

This article discusses a special geo-information platform (GIP) in the interests of defense and security of the country to improve the effectiveness of management of the armed forces and other troops and military formations. The solution will improve the quality of data collection and analysis processes on the situation with the presentation of information on electronic maps to officials of management bodies, increase the efficiency of the processes of forming graphic documents, displaying and transmitting information on electronic maps, optimize and improve the efficiency of interaction between participants in management processes. This system plays a special role in ensuring the security of the country and when developing the system, all aspects must be taken into account to ensure the protection of information and prevent unauthorized access.

KEYWORDS: Information security, Geoinformation system & Information protection

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