

A MATHEMATICAL MODEL OF CHOOSING THE OPTIMAL NUMBER OF PROTECTED BLOCKS OF SOFTWARE MANAGEMENT INFORMATION SYSTEM

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Practice functioning of enterprise information management systems (EMIS) indicates the presence of a significant number of problems associated with defects in the subsystem protection of information resources EMIS. This, above all, non-compliant technical information protection, as well as failure to fully implement methods to protect information resources subsystem access control and data protection EMIS.

It should be noted that none of the data protection system cannot be considered reliable in all 100 percent. Therefore, particularly in the name of the password cannot be obvious to use phrases which are easy to guess. Hacking protection system criminals may exercise, in particular, by forging public-key remote analysis (not completely) files as well as files virtual memory, creation of computer viruses or bookmarks.

In addition, the violation of the physical access can allow an unauthorized person to capture the source file. Cryptographic techniques to protect data only for as long as they are encrypted, and cannot prevent a violation of security regime, where disclosure could be text or audio information (this type of attack is easier and cheaper cryptanalysis).

Thus, the problem of data protection today EMIS is quite urgent, requiring the need for complex organizational, legal, and hardware and software engineering activities.

However, despite the rather powerful resource potential information security system EMIS, these problems are sharpened due to a substantial increase in the volume of data today EMIS, the uncertainty of their formats in scope and time, as well as the use of various security systems to protect blocks EMIS software that requires further research .

The developed mathematical model allows us to create the conditions to find the optimal number of protected blocks EMIS software that achieves the greatest effect on the protection. Marked optimizes the management of information security in the EMIS and improves the quality of the system to support management decisions in the enterprise.

Keywords: privy, structure of software, management information's by an enterprise, mathematical model of depth of setting of passwords.