

**The theme of the graduate thesis is:** development of a network information security system for the firm «Leto»

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**Information about the organization:** the firm «Leto» is a travel agency, firm located in Pyatigorsk, organizes tours around Russia or abroad, the firm is represented in the city by two offices

**The relevance of the research topic:** the relevance of the topic is due to an increase in the number of network attacks on organizations that work with personal data of users

**The aim of the work:** development of a network information security system for the firm «Leto»

**Research objectives:** analyze the activities of the organization, give it a description, analyze the technical and software means of protection in the organization, analyze information flows, describe the methods, tools and information security systems in the firm, set tasks to develop a network security system in the organization, describe the main provisions of practical development and implement the network protection system, select the network protection tools and justify them

**Theoretical significance of the research:** informing the boss and employees of the company about the available network vulnerabilities in order to prevent the theft of personal data of clients

**Practical significance of the research:** consists in the possibility of using the proposed methods for the search and removal of network vulnerabilities for the company «Leto» and in other organizations

**The results of the research:** analyzed and identified shortcomings in the system of the firm «Leto», eliminated them and suggested methods for improving the network security of the organization

**Recommendations:** we have proposed the following solutions to increase network security in the company «Leto»:

- we asked the company's management to subscribe to a VPN service, which would increase the security of the network, and we changed the standard login and password on the Wi-Fi network;

- anti-virus "Kaspersky Security for Internet gateways" was offered for purchase;

- the password and login on IP-cameras were changed;

- Problems with the site of the company were eliminated, and it was also suggested to use the protection of sites from the company «ReScan»;

- we disconnected and removed hidden file resources on employees' computers, as these resources during the network attack could become the target of intruders;

- administrator access rights have been defined on computers, the login and password of the administrator account have been changed;

- a trial version of the program «CryptoARM 5» was installed and tested, with the help of which it is possible to sign the document with an Electronic signature;

- it was proposed to introduce the post of a system administrator, who will conduct monitoring of the general state of software and hardware, troubleshoot, and will be responsible for ensuring safety in the firm «Leto».