

## SUMMARY

**Subject matter of the dissertation:** The protection algorithm of personal data in the department of Register Office (The Stavropol Region, Mineralvodskiy district)

**Author of the master's dissertation:** Oganesyanyan David Vrezhevich

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**Customer organization:** The department of Register Office (The Stavropol Region, Mineralvodskiy district)

**Topicality of the research:** One of the most important part of following the policy of information security is providing security of the personal data. The government is planning to strengthen the efforts in this sphere. The protection of the personal data in every organization is an actual scientific tasks nowadays.

**Objective:** to create the protection algorithm of personal data in the department of Register Office.

**Tasks:** to identify the purpose and functioning of the organization, to evaluate material and technical basis of the Register Office, to study and analyse the systems of protection the security, to set the tasks to improve the protection, to work out the algorithmic models to improve the system of protection of personal data information in the Register Office.

**Theoretical significance** is based on the fact that the special literature is studied, the market of software is researched and modern measures and instruments to protect information is studied.

**Practical significance** lies in the creation of the algorithm of the depersonalization of personal data based on the models and methods  $\pi$ -nonlinear cryptographic transformations.

**Results of the research:**

The mathematical model and algorithms of the depersonalization while the process of storage at databasing and while transmitting through non-protected channels inside the local nets and out of them.

**Recommendations:** to apply the created algorithms to protect the personal data; it is settled the possibility of application in this Register Office the monitoring system and audit via netting security Xspider