

## ABSTRACT

Sivitskiy O. V. Methods and software and hardware security evaluation of network information systems.

The aim of the Master's diploma work is the development (justification) the model of a system of information security processes that would base on mathematical and technical staff made it possible to solve the problem of creating, using and evaluating the effectiveness of the protection for planned and existing information systems.

The object of the study is the process of developing (justification) the model of information security of automated systems.

The subject of the study is the methods of information security, which are used in the design of new and modernization of existing information systems security.

Diploma work is aimed on comparative analysis and justification of the choice model of estimation SIS, and developing of analytical and methodical approach based on the «Matrix» Domarov for evaluating the security of network information systems SIS of technology Bluetooth. To check the security of information systems based on the given technology used software tools: BlueSnarf++, BlueSnarf, Bluestab, BlueBump, BlueDump, Blooonix. On the basis of verification the audit of information systems security evaluation conducted by «Matrix».

Release year - 2014.

Year of protection - 2014.

Keywords: SIS evaluation, the model «Matrix», qualitative indicators of assessment, quantitative indicators of assessment, security of communication channels, the matrix of the knowledge, the technology Bluetooth.

Thesis contains 165 pages, 15 tables, 37 figures, 37 references, 4 annexes.