

THE ABSTRACT OF FINAL QUALIFYING WORK

Theme of final qualifying work: Organization and technology of the new wi-fi standard with increased data security.

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Information about the customer organization:

Relevance of the research topic: The relevance of the security problem in Wi-Fi networks is due to the fact that to access information circulating in the Wi-Fi network, it is enough to install a conventional receiver within the range of this network. That is why one of such priority problems in Wi-Fi networks is the problem of development and implementation of modern models and methods of information protection.

Purpose of work: research and analysis of wireless WI-FI technology

Tasks:

- familiarization with the activities of the enterprise, evaluation of its material and technical support;
- the study of the system used in the enterprise of information ZI transmitted through communication channels;
- Development of proposals for the organization of Wi - Fi network in LLC «DENS»;
- analysis of all known to date standards of Wi-Fi from the first certified standard 802.11 b, to the state-of-the-art;

Theoretical and practical significance of the study

The theoretical significance of WRC is that:

- laws and legal documents in the field of information security of wireless Wi-Fi networks are studied and analyzed;
- the existing systems, models and means of information protection used at the object under study are analyzed;
- the shortcomings and unresolved problems in the organization of complex information security of wireless technologies in the enterprise are revealed.

The practical value of the work is to develop and offer the best option for building an information security system for Wi - Fi networks for the company "DENS».

– **Research result:**

covered security issues in wireless networks

- variants of topology of their construction
- modern technologies of their design
- and the characteristics of modern equipment for their construction
- **Recommendations:**
 - After the analysis of modern standards of wireless security, Wi-Fi;
 - choose any type of 802.11 standard is 802.11 AC
 - The variants of Wi-Fi network topologies are selected
 - Selected modern equipment for the organization of Wi-Fi network