ABSTRACT

The diploma contains: 92 pages, 56 figures, 6 tables and 22 sources.

The purpose of the work is to increase the security and reliability of wireless access networks.

This paper considers the main wireless information transmission networks. Wireless local area networks and principles of its work are considered in more detail. The types of attacks on these networks were analyzed, and methods of combating them were considered. The option of attacks on corporate networks was considered and some recommendations were offered to avoid attacks and ensure the integrity of personal data in the future.

Keywords: Wi-Fi, WPA2 Enterprise, wireless local area networks, authentication, protection, protocol, standard, WEP, WPA, WPA2, WPA3.