

ABSTRACT

Wireless networks are becoming more widespread in Ukraine and all over the world, due to simplicity of their conduct, increasing bandwidth, the possibility of building wireless network, where it's impossible to build cable networks, mobility of users.

In the work the specification 802.11, modes of wireless networks, methods of construction of WLAN networks for offices were investigated. It was also reviewed existing at the time wireless communication devices, such as wireless access points and wireless adapters.

The aim of the project was to create a local wireless network based on 802.11 technology (802.11 g specification) for office, which is located on two floors and has 26 permanently connected users of network.

During the design there were developed logical and physical topology, network devices were selected and their settings were described, calculating of the expected network traffic, simulating of network in NetCracker was done, the results of which confirm the correctness of the design-making decisions.

Work on 56 pages contains 33 illustrations, 3 tables. At work preparation literature from 14 sources was used.