

Annotation

The diploma project is aimed at analyzing and upgrading the data transmission network of computer clubs "Infinity Club". Hardware configuration and organization of the data transmission channel.

This work is divided into five chapters, in which there are calculations of throughput by summation and calculations of quality of service parameters using Queuing theory, network model design using the NetCracer 4.1 program, and equipment selection for external and internal data transmission channels for computer clubs.

In the Chapter on life safety, calculations were made for a favorable microclimate of premises and working conditions. In the Chapter on the economic part, the company's profit was calculated taking into account all costs and the payback year.