

**Abstract**

This project review the development of the L2 network in existing telecommunications networks for the SC "Atyrau".

This diploma project describes the characteristics of the network L2, design and application of this technology, calculations are carried out on network performance.

To do this project selected the hardware, make the appropriate calculations, and same consider the analysis of dangerous and harmful factors and protective measures for the protection of labor. In the economic part designed costs for the development, design and implementation of technology.