

Abstract

In this thesis project examined the basic methods of implementation of voice and SMS in the networks of LTE (VoLTE). The analysis and a detailed study of the most suitable methods. It offers optimal variant of the organization of voice services in LTE networks of "ALTEL" and considered its implementation in the city of Astana.

Calculations of the technological characteristics of the radio interface standard, LTE, also calculated the coverage area of one base station.

In the health and safety analyzed the working conditions in the production hall and calculation of natural and artificial lighting. The calculation of economic indicators to measure the cost-effectiveness of the proposed solutions.