

Annotation

This graduation project presents the organization of a 5G-based radio access network in the «Legenda» residential complex. Possible architecture options for 5G radio access network organization are considered, 3GPP Rel-15 architecture (3GPP Non-Standalone Architecture - Option 3.X) is chosen as the preferred one. The provision of 5G technology services to residents of «Legenda» residential complex from «Kazakhtelecom» JSC is under consideration. The calculations of all the necessary technical parameters are carried out, the type of necessary equipment is determined.

In this diploma project, the economic efficiency of the project is calculated. Safety issues in the design process are considered.

