

## **Abstract**

This paper discusses the possibilities for introducing a new generation of mobile communications in the Republic of Kazakhstan, as well as the problems that may occur at the stage of launching the network. Scenarios of building networks in the future and technologies, the application of which can set the desired development vector for the future communication system in Kazakhstan, are investigated.

The issue of frequency and sanitary-epidemiological regulation was studied using the example of a table of frequency distribution between radio services of the Republic of Kazakhstan and sanitary-epidemiological requirements for radio engineering facilities. The calculation of biohazardous zones created by radio transmitting antennas in the low, medium and high range of radio frequencies was performed.