

Annotation

The dissertation work discusses the concept of software-defined networks creation, shows their importance in the development of network technologies. The analysis of the operation of the OpenFlow protocol in the SDN network is carried out. The process of a software-defined network management created in Mininet and connected to an OpenDaylight controller is presented.

The traffic transmitted as a result of interaction between the controller and the OpenFlow switch has been analyzed. To study the process of traffic exchanging between network nodes, the Wireshark network packet analyzer was used. A model for the delay of transmitted traffic over the SDN network has been developed. The value of the delay in the SDN network has been investigated