

**Abstract**

This paper investigates the potential development of an integrated network transmission of any traffic with the use of different technologies and equipment, carried out in accordance with open standards and specifications.

The network has a backbone fragment based on the SDH network using technology POS (Packets Over Sonet/SDH, "packets through Sonet/SDH") and conducts its backbone routers Cisco Systems, intercity network segment performed using technologies Frame Relay.

For consideration and definition of the best working conditions of one of the local network of the company applies simulation model network, modeled on the language GPSS.