

ABSTRACT

Boilo Y.T. Research of methods and facilities for Internet access in intercity transport.

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The thesis deals with the current state of methods, models and means of access to the Internet in the intercity transport, identifying their shortcomings, justify chosen methods and means to implement the task, testing and debugging creation scheme to create a local Wi-Fi area network in a bus. Analysis of modern methods and facilities for Internet access, defined their working principles, standards, functioning, describes the development of technologies and their basic structure and working methods. The changes that occurred as a result of improvements generations of mobile networks and their impact on the data rate are described. Applied methods of protecting access to the Wi-Fi zone WPA2-PSK. Model of local Wi-Fi network in a bus, which consists of Pantech UML295 modem and Wi-Fi router N13U Asus RT-A is created. Are given the configuration of each device and specified settings appropriate the needs of Wi-Fi network . Done testing to provide services to the client. Developed a test trip Ternopil-Rzeszow-Ternopil to explore how users use the Wi-Fi network during the trip. Comparative characteristics tariffs of 3G mobile operator in Ukraine and their 3g network coverage maps are offered.

Keywords: Internet, mobile networks, wireless networks, WI-FI, 3G.