

INVESTIGATION OF FACTORS AFFECTING MOBILE BROADBAND EFFICIENCY

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ABSTRACT

This work was done to examine the factors affecting mobile broadband efficiency. It was carried out at two different locations which are Benin City and Okada Town in Edo State of Nigeria. Three network providers were examined using their USB modems. A software called BB monitor (bandwidth monitor) was installed on three different computers which help to monitor and record the data traffic while the respective modems of the Network Providers were plugged into the USB ports of the computers. The software recorded the data traffics of the different networks for a period of time (14 days).

The average bandwidth for each day was calculated and this was done for fourteen different days. This was done for the three different service providers. These data gotten were plotted into graphs and a proper analysis was done between the bandwidth of the same network under different conditions. The condition taken note of were different locations, time of the day and weather condition. From the analysis it was discovered that change in location, time of the day and weather condition all affected the bandwidth of the mobile broadband services.

KEYWORDS: Bandwidth, Broadband, Download, GSM, Modem, Upload