

INTERNET ACCESS COMPARISON BETWEEN GSM AND CDMA NETWORKS

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ABSTRACT

A comparison of the internet access quality between two competitive networks (GSM and CDMA) using a measuring tool/software called myspeedlite was carried out in Okada Town and Benin City both in Edo State of Nigeria.

The software myspeedlite was installed on four laptops each representing the various network MTN, AIRTEL, MULTLINK and VISAFONE as case study and the test was carried out for a period of 15 days in Okada and for a period of 15 days at Benin to test for the application and capacity speed test which comprises of the download speed test, upload speed test, Quality of service, round trip time, maximum pause and route hops. The result obtained from the various test run on the different networks showed that VISAFONE in Okada had a better Quality of service of about 35% followed by MTN with Quality of service of about 27% and AIRTEL with about 17% while VISAFONE had better results in Download speed test, Upload speed test, Round trip Time and max pause.

The observation in Benin from the result showed that MTN had a better Quality of service of 68% followed by VISAFONE with Quality of service of about 62% and AIRTEL with 55% while MTN had better results in Download speed test, Upload speed test, Round trip Time and max pause.

The implication of this finding is that VISAFONE in terms of internet access quality service in Okada is better and MTN in terms of internet access quality service at Benin City is the better network considering the result obtained from the test run. This result would help to educate the intending users on which network they should use most especially for internet service in these two locations. The result obtained in the research work is only limited to Okada and Benin City for which were the case study and for recommendation purpose, the various test should be run for a longer period.

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