

Abelita, Christian June S., Bagaforo, Janine E., Demapendan, Mark Benedict D., Lachica, Marc Ruben B., Tulio, Aleah Marie B., Venancio, Moniel E., and Pagayonan, Sheila Mae S. "Comparative performance of Philippine Wireless Internet Service Provider (ISP's) in WLAN Implementation using Mobile Phone as Hotspot." Unpublished Undergraduate Thesis. Bachelor of Science in Information Technology major in Network Administration, Northern Iloilo Polytechnic State College, Estancia, Iloilo. March 2018.

ABSTRACT

This experimental study determined the performance between two Philippine Wireless Internet Service Providers (ISPs) which are Globe Telecom and Smart Communications in Wireless Local Area Network (WLAN) Implementation using Mobile as Hotspot. The intervening variables were the network load, time of access and type of content that determined the performance of the ISPs. The experiments were conducted on January 13-15, 2018 at the Brgy. Bayuyan, Estancia, Iloilo which the Globe Telecom cell site is located and at Brgy. Bulaqueña, Estancia, Iloilo which the Smart Communications cell site is located. The tests were done between 8:30 in the morning until 4:00 in the afternoon. The data were attained by setting up a WLAN using mobile phone as hotspot connected to Globe Telecom and Smart Communications cell site is located. The tests 4:00 in the afternoon. The data were done between 8:30 were obtained by setting up a WLAN using mobile phone as hotspot connected to Globe Telecom and a WLAN connected to Smart Communications. The statistical tools used in the study were Mean and t-Test and were all set at 0.05 level of significance. Findings showed that the average web page load time of WLAN using mobile phone as hotspot connected to Globe Telecom classified according to network load, time of access and type of content has a slow performance. average web page load time for a WLAN using mobile phone as has a faster hotspot connected to Smart Communications. The performance than that of the Globe Telecom. The result revealed that the average web page load time in WLAN using mobile phone as hotspot connected to Globe Telecom and WLAN connected to Smart Communications whether the factors were classified according to network load, time of access and type of content, the Smart Communications was better compared to the Globe Telecom for it has provided faster