## WIFI SIGNAL MEASUREMENT CAMPAIGN AT INTI INTERNATIONAL UNIVERSITY CAMPUS

Prepared by: Siaw Heng Chiat

## **ABSTRACT**

Good and efficient if network planning for wireless local area networks (WLAN) is very important. The propose of this research study is to shows the accuracy of a two-ray and friis equation propagation model as determined through the comparison between the measurements and analysis of the established 2.4 GHz, 802.11n outdoor WiFi network deployed on the campus of INTI International University. In addition, analysis of measured data shows that accurate predictive planning for network coverage is possible with the propertechniques. As a consequence, the propagation models performs with good accuracy comparable to other commonly accepted, more complicated models and is offered as a simple. Result shows that the prediction error for the indoor and outdoor propagation model is approximately around 8dbm different with the actual measurements for the area under study. Furthermore, the accuracy of model predictions is shown to be satisfactory for network planning.