

Planning Wireless LAN (Hotspot) University Area Using GIS (Case Study at STTTELKOM)

Abstract

Computer Technology improve greatly nowadays, begins from fixed cable and until now it is improved become mobile communication. Functionally, Hotspot provide services to connect wireless equipment such as PDA, cell phone, notebook even handheld games to enjoy using internet or intranet services such as email, file download anytime anywhere. Users can use internet or intranet service from one place to another as it still in Hotspot coverage area. This is become a part of IT that we can not refuse.

In this final task, writer make a wireless LAN (Hotspot) configuration plan using GIS as a tools, with case study at STTTelkom. Planning is not only in STTTelkom, but also including STTTelkom neighborhood such as PGA, Palasari, Sukabirus and Sukapura. A few things that writer do are designating coverage area, designating zone, designating user and also mapping location. Using NetStumbler and MapInfo as a tools, the desired coverage area are measured, so AP can covered the desired area which is contain potential user in it.

Final result of this final task are AP coverage that represented by signal power in measurement poin that can covered desired area contain potential user and also planning Wireless LAN based on GIS for area around STTTelkom.