

## ABSTRACT

Telecommunications in this time have gone to a services requiring wide bandwidth for application like data communications, voice, video on demand, etc. All of the services require a network access which quickly but with expense budget and also can give a level of quality of services to customer of telecommunications a specially multimedia services in big city such as Bandung. Because that telecommunication operator uses core network with DSL technology to provide broadband access services.

But this services have distance limit, 5 km from customer to telephony exchange. If the distance to the customer more than 5 km, the quality of service will be decreased. This project give a learning for plan WipLL network for supported broadband wireless access services in Bandung.

This project containing WipLL network design in Bandung area such as allocated position BSR, SPR and network subnetting with power parameter, obstacle link study (height of antenna), link availability, fade margin and path loss which uses for performance analysis of WipLL network.

With this project, the parameters for design and planning WipLL system in Bandung could be obtained. Those of parameters are examined each sector at the planning area.