

ABSTRACT
IP PABX NETWORK PLANNING
USING GIS ON STT TELKOM AREA

Internet Protocol (IP) technology bring development for telecommunication technology in indonesia. With IP technology, it can accomodate full of service rate such as voice, faximille, data and multimedia on one multifunction network. Lot's of advantage that's can take from IP network such as more efficiency usage channel, highest efficiency bandwidth, ownership cost network more cheaper and capable for application new voice enable. That's way, lots of users use internet protocol private branch exchange (IP PBX) --which base on packet switch-.

IP PBX can handle the weakness of conventional PABX - which base on circuit switch – such as limited bandwidth for multimedia and limited convergence with data packet network. That's way need good network planning for IP PABX so it can optimaze as needed. PABX network on STT Telkom has lot's of weakness such as limited capacity, terrible network management and there are view of component and spare part are broken and cannot be fix and replace because out of produced.

In this final task, take topics about IP PABX Network Planning using GIS (Geographic Information System) on STT Telkom area. There are two steps which is IP PABX tools dimentioning and IP PABX network traffic's modelling for the next view years using GIS application. To solve the problem on this final task, the writers use data from PABX network of STT Telkom Bandung.

The result's from this final task are good IP PABX network planning, IP PABX tool's and better network management for the communication traffic of IP PABX on STT Telkom.