

## ABSTRACT

IRT 2000 is a applicable communication system equipment for rural area. This system has been operated since 1998 in Tabanan Bali. Since last 3 year, there is some hardware problem, and very difficult to get hardware spare parts because IRT 2000 module spare part doesn't produced any more. Beside that the system module capacities hasn't enough to fulfill rural costumer demand such as broken module substitution for old customer and new connection for a new costumer who wanted telephone connectivity.

PT. Telkom in Denpasar already has unused new system spare part, that is AMX. Base on the hardware specification, AMX can substitute IRT 2000 system in Tabanan observe from the module capacity of the system and system quality . This final project will be analize AMX application system with demand forecasting in Selemadeg Tabanan regency. Next step, will be a AMX system planning and implementation to serve the demand in Selemadeg.

Planning analysis result show that AMX system is suitable to used as the replacement system for IRT 2000 which can serve the costumer for 5 years and with this replacement, the spare part problem can be solved.