

ABSTRACT

This paper is presented to accomodate the need of telephone service for blank spots areas which have no access for such facilities. As an example Kendal, as one of a regency from Jawa Tengah Province have 3500 of applicants which are PT. TELKOM waiting list in year 2004. Their needs has not been supplied by PT. TELKOM because of their limited network or any other reasons such as efficiency or economical reasons. Voice over Wifi Technology can be an efficient and a low cost solution so the community can built it by them self.

The system will has IEEE 802.11b standard with data rate 2 – 11 Mbps and 2,4 GHz frequency as a planning guide. The system will be planned with many considerations such as system konfiguration, social-geographic condition of the system's environtment, the system's services, consideration of cost, system's compatibility, system's availability and integrity.