## ABSTRACT

Company has spreading work location and it is working in their area need to communicate between both employees and partner for keeping performance stability and keep control of operational area. But it could be problem if employees were working with high mobility and moving job location every time while they must to be communicates with other partners to send and receive information. Today every big company has been operating high capacity access application to keep or deploy performance operational like use multimedia applications. WiMAX's technology have trade on in wireless network system to become a solution for user have high mobility. By the way the other trade on from WiMAX technology is high transfer capacity access equal or more than broadband access that we know today with a good QoS level.

Deployment of WiMAX network for company to support high access applications like broadband access with high mobility, it must be considering by company to efficiency and flexibility. The planning process to know number of BTS for coverage area services, number of channel to support user traffic, and convergence by network existing as a complement on network so guarantee communication between user used WiMAX network and user used existing network. Uses of percentage by content application and number of user influence for estimate number of channel and deployment of fixed access application and mobile access application with places of substations outdoor or indoor influence for services coverage area. So WiMAX specification, services area, number of user, user application, existing network very attention to considered for complete the planning process.




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