

## ABSTRACT

Wireless Wide Area Network ( WWAN) 2,4 GHZ represent one of alternative technology access internet of ISM ( industry, scientific and medicine) band having the character of unlicensed by owning excellence in easier peripheral installation, quickly, flexible to earn to reach just district of where and cheaper relative when compared to a cable technology which limited to infrastructure of existing telecommunications company, so that companys of penyedia of service internet to get client;subscriber in the form of warnet as much as possible till use booster to master frequency channal at certain district by getting the run around emittance (EIRP) what specified by government.

Target of Planning of WWAN of 2,4 GHZ this for the cell settlement of region of Kabupaten Denpasar And Kabupaten Badung, so that be formed existence of regulation of use of frequency channal at one particular district which have been specified to avoid overlap usher frequency channal.

Used method is cell settlement to reach all district at region of Kabupaten Denpasar And Kabupaten Badung with assumption of pursuant to high aktifitas district and make-up of cell capacities by sektorizing method and also cell splitting.

From planning estimation got about 50 cell to reach all district of Kabupaten Denpasar And Kabupaten Badung with cluster  $k = 4$ , that is channel 1, 5 and 9 for reuse cell and also chanel 13 at link point to point. Sektorizing method with three sector to increase the cell capacities become 3 times fold and point to point remain to pursuant to IEEE 802.11b, except condition of cell network have the capacities addition there must be hence earn used by peripheral of larger ones of beet ratenya ( IEEE 802.11 g) of the size the cell which remain to and cell splitting can be used if all of cell very require addition of cell capacities.