

ABSTRACT

TV Cable services concern from HFC network ability and support. Initially, TV Cable network is formed entirely by coaxial network. Basically, HFC is telecommunication network which combine from fiber optic network technology and coaxial network technology.

HFC also provide phone , internet, and audio-video services (video phone, audio conference, video on demand, etc). So this technology is compatible developed nowadays. Due to the ability of HFC network to handle interactive services, it needs to make an architecture network design that concern about network infrastructure, network architecture forming, power link budget, system performances, and bandwidth of HFC which available for the offered services.

Therefore, TV cable and internet services can be accessed by all customer who use HFC network with considering of some factors, such as: *CNR*, *CSO*, *CTB*, and *XMOD* related form *FCC* standart are $CNR \geq 43$ dB, *CTB*, *CSO*, dan $XMOD \geq 51$ dB. For that reasons, should be done a HFC network configuration planning for TV cable and internet services in *Grand Wisata Bekasi* residence.