

ABSTRACT

Pesona Bali residential, located in Bandung is a middle class resident. Access network used still use copper, that have not been adequate *triple play* services .

Fiber To The Home (FTTH) is optical fiber in installation in the house to house. Were chosen *FTTH* in the Pesona Bali resident, Bandung to increase the network that is not optimal. The survey results *FTTH* is made based on the number of home in every block . Design *FTTH* can also benefit from using *GPON* technology. With this technology will make installment become more efficient , because technology the *GPON* serves to break up a network of *ODP* to some houses. The design from *FTTH* made using *Google Earth* by determining the location of the *ODP* and in the *ODC* in Pesona Bali resident, Bandung. After it is made a design on *Google Earth* use later made design *AutoCad* according the number of houses that had been determined .So as to produce maximum design *FTTH* expected.

By using this network of *FTTH*, Pesona Bali residential can get *triple play* service, and can save you expenses while performing installation or maintenance.

Keyword: *triple play, fiber to the home, FTTH, GPON, Google Earth, ODP, ODC, AutoCad*