

ABSTRACT

Nowadays, a CATV (Cable Television) network is not only used to provide TV broadcast service just like at the beginning when it was found. The CATV network can be also used to transmit multimedia service, such as internet, telephony, and Video on Demand (VOD). The CATV network is the network that can be built in the broadband architecture. This architecture could make the network simultaneously brings many information signals in high speed.

Actually, development of CATV technology also brings effect in other aspects, include luxurious residential that is often found in the big cities. One of the luxurious housing which is located in Bandung is Century Hill Residential. To increase its service to customer, the developer plans to build the CATV network that support multimedia services. Therefore, it is expected that the build of CATV network in that housing can fulfill the customer needs of multimedia services.

In this last project, the transmission media that is used as a connector of all the network wares is coaxial cable. The field of the service that is not too large can be expected to be served by coaxial network. While, the helper software that is used to make this planning easier is Cable Tools. This software gives information that is useful in the coaxial network planning.

The result of CATV network planning in the Century Hill Residential shows that the planning done has reached the target that has been decided, it is 3 – 12 dBmV for signal level in user terminal. 43 dB in CNR and 51 dB in CTB, CSO and XMOD. With that result, the network is expected to provide a distributive and interactive service to all customers in Century Hill Residential.