

ABSTRACT

The Sumber Alam Hotel is a relatively new three star hotel, where was on jalan raya Cipanas, 122 Garut. Cipanas is relatively place of picnic where is the most interested. To be able to compete with other hotels, an innovative value is needed added service to draw and giving justify more customers. So can be implemented coaxial network to support multimedia services like internet, video on demand, television, telephony, video on safety and other future multimedia services.

Indeed, the foundation for the entire in this final project is how to design a multimedia network using coaxial media in order to quality of the signal . There is an orderly process to this whole affair. At each step in the design process, questions will need to be answered to help determine the appropriate choices and parameters, and analytic of capacity of bandwidth which is used. In analytic it is used cable tools software to support design process. The usage of this software will largely depend on the hardware specification used in this final project. After the initial design is completed, the values of voltage levels and network reverses will then be calculated. This way the network will have a full-duplex capability.

A good network design should be able to meet a strict standard of performance requirements. Measurements show that the resulting performance parameters are still above the targeted values as follows: the lowest CNR of is 58,5 dB (min. standard 43 dB), the lowest CTB of is 62,4 dB (min. standard 51 dB), the lowest CSO is 66,98 dB (min. standard 51 dB), the lowest XMOD is 60.34 dB (min. standard 51 dB). These results show that implementation of a coaxial network for multimedia services are very much feasible and affordable for The Sumber Alam Hotel in Garut