

ABSTRACT

Applying and optimalitation technology using telecommunications in assisting system of institution management will give productive and effective job situation, there're not limited to space and time dimension. In education with the government regulation about management system of distance learning caused request of videoconference service is increasing. The first technology that use in this case is ISDN (*Integrated Serviced Digital Network*). But, ISDN Network especially in Indonesia only available in big city. So the second technology increased. It was IP Network technology. Actually VPN or Intranet is close network that used for special user. With the new satellite technology, our problems can avoid from our mind and easy to realize.

The steps that we must do in this planning are two process. There are infrastructure planning process consist of initialitation, network planning, dimensioning equipment, link budget calculation and analyze the result beside that, analyze businnes modelling system to the future. To fix this planning and solve the problem in this paper, writer use data and information which are obtained from PT.Telkom and Patracom as one of VSAT operator.

The result from this final task is obtained an optimal e-learning planning using videoconference based on satellite are good for an equipment and also from business. With 1.2m antennas, power 1,3 watts for user and 1.5m antennas and power 12 watts for HUB this system cam be realized in Indonesia.

Key words : e-learning, satellite communication, business modelling