

## ABSTRACT

VPN is a virtual connection that is private where basically does not physically exist on the network. It is a private, because this network is a network of private nature which not everyone can access it.

Besides that, in VPN network, there are many services that can be held for example Triple Play Service. Triple Play Service combines some services such as voice, data, and video in one network connection.

In this final project, the system designed is infrastructure network of PT. AEROWISATA GROUP. Each unit at those design integrated using WAN to make the communication smoother, which make the communication in the extension from different unit feels like using communication in the same unit. That makes the cost of using this kind of communication cheaper and has good quality (QoS) like the general standard technology.

After the plan, the design, and the simulation has been done, we get some conclusions such as Metro Ethernet technology over VPN-IP that implemented in LAN network for every branch office could work perfectly like has been planned. Besides that, the results of the simulation of VPN-IP network that have been implemented in PT. AEROWISATA GROUP get a good result so that QoS can be guaranteed.

Key word :, VPN, *Triple Play*, QoS