

## ABSTRACT

Technology development and future service necessity will be estimated that will increase. NGN (Next Generation Network) technology offered merging three services is voice, data and video (triple play) with access network of broadband scaled. PT. TELKOM as biggest telecommunication company in Indonesia, in this time it's developing wireline access network with various technology such as DSLAM and MSAN that is DSL technology. Service of DSL from DSLAM and MSAN prepared to can give multi-service. To can give multi-service, so CPE that used of customer must support too. One of t CPE beside of customers is home gateway.

Home gateway is a ware that connects between home network and platform service and internet. This ware is ware of customer that used to accessing internet, telephone, IPTV, and connection wireless. The most important is home gateway prepare connection for all customer of telecommunication to can mutual linked one another.

This final project is done a performance analysis of home gateway, with laboratory test at Telkom RDC Bandung. As to suppose the result can give information about ability of DSL home gateway in support service triple play from capacity aspect with parameter throughput and based on standard Home Gateway Initiative (HGI).

Keyword : *home gateway, triple play, Home Gateway Initiative (HGI)*