

## **ABSTRACT**

Nowadays, information technology is rapidly growing. Increasingly diverse of human needs encourage the development of information technology. Human needs for information technology is not limited to voice only, but also include data and video. NGN (Next Generation Network) is a global network of the future that integrate all application services mainly based on IP (Internet Protocol) application services or often referred to as IP-based applications. Today the development of services based on IP has been widely adopted, such as VoIP, e-mail, chatting, IPTV and others. But for now many services are still separated with other services. The problem that arise is how to integrate the servers of each of these services to complement the objectives of NGN itself.

This final project is integrating application services based on IP such as video messaging service with e-mail. Integration that's mentioned is how to integrate videomail server with e-mail server and are analyzed such as the performances of each server and also the videomail to email service it self. For implementation, it's using an e-mail server, one videomail server and a DNS (Domain Name Service) server in a network that'd been created.

From examination of system performance in serving videomail to email services is known that it's depending on the size of the file that being sent. For the file size under 900KB or less than one minute video recording, the system is able to serve as many as 180 calls per minute in accordance with the asterisk server capabilities, meanwhile the opposite, for file size above 900KB, then the system performance is depends on the ability of zimbra mail server itself.

***Key words : NGN, videomail, e-mail***