ABSTRACT

WILLIAM (08320050003)

AVERAGE SPEED OF TIPS SYSTEM PERFORMANCE BY USING PT. INTERTEK UTAMA SERVICES' VPN CONNECTION

(xii + 46 pages : 6 figures ; 10 tables; 3 appendices)

Computer network is essential to companies with many offices located in separated areas. To build a computer network between the offices a company must have its goals laid out clearly first. Next, by having a largely spread out offices, a company must figure out a way to set a network between its offices. Thus, one of the most secure solutions is by employing Virtual Private Network. Nevertheless, it is important to keep in mind that the VPN depends on the internet connection.

This thesis discusses an implementation of VPN tunnel to support TIPS system. TIPS system is a system which is used to support testing and reporting process at the laboratory division of PT. INTERTEK UTAMA SERVICES. The VPN tunnel connects PT. INTERTEK office Jakarta and Singapore. By employing VPN both offices are connected with only one server based in Singapore as it is where the debugger team is located. In addition, by using VPN the debugger team which is located in Singapore can directly do updates and troubleshoots the TIPS system.

As a result of this study, the connection between both offices is established through employing the VPN tunnel. Therefore, this implementation will help PT. INTERTEK UTAMA SERVICES in doing updates and troubleshooting the TIPS system. Although the implementation of VPN in PT. INTERTEK UTAMA SERVICES has been proven to be appropriate, the writer also found a drawback; the TIPS system's performance did not work at its maximum capacity because of the internet connection.

References: 13 (1996 – 2009).