

ABSTRAK

Samson Sinaga (13130094), Analisa *Local Area Network* pada Kantor Pusat Komite Nasional Keselamatan Transportasi Jakarta

Di jaman modern saat ini kemajuan teknologi informasi berkembang pesat terutama pada jaringan komputer dan *interconnected networking* atau lebih dikenal Internet. Jaringan komputer yang ada pada Komite Nasional Keselamatan Transportasi merupakan jaringan LAN (*Local Area Network*). Didalam Instansi ini pembagian bandwidth jaringan internet masih belum maksimal. Setiap karyawan dapat melakukan download dan upload file berukuran besar tanpa adanya batasan dan penggunaan situs media sosial pada saat jam kerja dapat mempengaruhi kinerja karyawan. Agar bandwidth dapat digunakan secara baik dan benar sesuai kebutuhan semua karyawan dan merata juga pemblokiran situs media sosial pada jam kerja maka diperlukan adanya pembagian bandwidth (*bandwidth management*) dan sistem penjadwalan dengan memanfaatkan fitur yang ada pada Mikrotik agar bandwidth dapat terbagi teratur sesuai kebutuhannya dan penggunaan situs sosial media dibatasi. Karena dengan adanya manajemen bandwidth dan penjadwalan maka semua aktifitas baik secara jaringan maupun kinerja karyawan tidak terganggu.

Kata Kunci: Jaringan Komputer, Bandwidth, Management Bandwidth, Mikrotik

ABSTRACT

Samson Sinaga (13130094), Analysis Local Area Network at the Headquarters of National Transport Safety Committee.

In today's modern era of technology advances thrive, especially on computer networks and interconnected networking or better known as the Internet. Computer networks that exist in the National Transportation Safety Committee is a LAN (Local Area Network). In this agency distribution of bandwidth internet is still not optimal. Each employee can download and upload large files without any restrictions and the use of social media sites during working hours can affect employee performance. So that bandwidth can be used properly according to the needs of all employees and evenly also blocking social media sites during work hours so it needed the distribution of bandwidth (bandwidth management) and scheduling system by utilizing the features of the Mikrotik so that the bandwidth can be divided regularly according to their needs and usage social media sites is limited. Due to the bandwidth management and scheduling, then all activities both tissues and individual employee performance is not compromised.

Keywords: Computer Network, Bandwidth, Bandwidth Management, Mikrotik