

**Title of Article :** Improvement of Quality of Service (QoS) over a Wide Area Network (WAN) using Multiprotocol Label Switching Traffic Engineering (MPLS-TE)

**Author(s):** Adewale Adeyinka A., Dike U. Ike, Ndujiuba Charles, John S. N

**Outlet :** International Journal of Computer Applications (IJCA) (0975 – 8887) Volume 88 – No. 10, February 2014, pp14-18.

**.Abstract:** Bandwidth refers to the amount of data that can be transmitted in a specific time over a wireless or wired medium. It is an important factor that is used to analyze network performance, design new networks, and understand the internet. Multi-protocol label switching (MPLS) originated from tag switching and enables the consolidation of applications onto a single network whilst providing the mechanism to prioritize the latency of individual applications within application classes. It is a more efficient way to transfer data between wide area networks and thus helps to reduce cost and increase bandwidth, throughput and reliability. In this paper we demonstrated by simulation experiment that MPLS-TE can help decongest routing path thereby ensuring improved network performance by reducing the traffic on a network segment, and increasing network throughput and reliability.