

**Title: NETWORK PERFORMANCE ENHANCEMENT VIA MPLS TRAFFIC
ENGINEERING**

By

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DECLARATION OF ORIGINALITY

This is to certify that I am fully responsible for the work submitted in this project paper. This is also to certify that this project paper is the original work of my own except as specified in the references and acknowledgment and that the original work contained herein have not been taken or done by unspecified sources or individuals.



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ABSTRACT

The exponential growth of the Internet for the past few years has made the IP protocol suite the most predominant technology. In addition, the merge of voice and data communications over a single network infrastructure is expected to happen over IP-based network. Traditional IP networks offer little predictability of service, which is often unacceptable for applications such as telephony, as well as for emerging and future real-time applications such as telemedicine. One of the primary goals of traffic engineering is to enable networks to offer predictable performance. The Internet Engineering Task Force has developed standards for traffic engineering in IP-based networks. This project discusses the traffic engineering mechanisms developed by the IETF, how MPLS works as traffic engineering tool, and how MPLS deals with links and nodes failure.

Keyword: MPLS, Traffic Engineering

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