

# **Research on combining DIFSERV and MPLS in enhancing QoS quality of service**

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**Abstract:** In the context of increasing demands for Quality of Service (QoS) in communication networks, this study focuses on the combined use of DiffServ and MPLS to improve service performance. The main objective is to build a network system capable of classifying and prioritizing traffic based on QoS according to different application needs. The approach includes both theoretical research on QoS management mechanisms and experimental application deployment. The expected outcome of this study is to provide an effective solution for enhancing service quality in communication networks, contributing to the development of modern network technology.

**Keywords:** DifServ, MPLS, QoS, traffic management, network system