

Research on quality of service assurance in MPLS VPN networks

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Abstract: This topic aims to determine the necessity of ensuring Quality of Service (QoS) in MPLS Virtual Private Network (VPN) networks. The main objective is to build an effective QoS system for MPLS networks, thereby addressing the issue of unstable service quality in practice. The research method combines theory and experimentation, including current status analysis, design, and deployment of QoS algorithms. Through this process, the topic is expected to provide a useful solution for improving service quality in MPLS VPN networks, contributing to the sustainable development of data transmission technology.

Keywords: MPLS, Virtual Private Network (VPN), Quality of Service (QoS), Experimental research, QoS algorithm