

Research on traffic engineering in MPLS networks. Building simulation scenarios.

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Abstract: In the ever-evolving context of data transmission technology, researching traffic engineering techniques in Multiprotocol Label Switching (MPLS) networks is necessary to address challenges related to performance and flexibility. This topic focuses on building a simulation scenario to test traffic management strategies on MPLS, aiming to enhance processing capabilities and network optimization. The approach is based on a combination of theory and experimentation, helping to evaluate the effectiveness of proposed solutions. The expected results of this study will provide the information technology community with valuable insights into traffic management in MPLS, significantly contributing to the development of more efficient data transmission systems.

Keywords: MPLS, traffic simulation, traffic engineering techniques