

Research on flow classification technology in MPLS

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Abstract: This topic aims to study Flow Labeling techniques in Multi Protocol Label Switching (MPLS), an important networking technology widely applied. The practical context shows that optimizing performance and quality of service in MPLS requires new approaches to flow labeling. The objective of the research is to identify and implement appropriate flow labeling strategies to enhance the applicability and traffic management capabilities in MPLS networks. The methodology includes theoretical and experimental analysis to evaluate the effectiveness of the proposed solutions. The expected outcome is to provide the research community and industry with a new knowledge framework on flow labeling in MPLS, contributing to the sustainable development of multi-protocol transport networks.

Keywords: flow definition, Multi Protocol Label Switching (MPLS), data traffic management