Abstract

MPLS is a network management system used to manage and monitor VPN services on the Service Provider (SP). MPLS VPN enables SP to provide intranet and extranet VPN services. MPLS VPN is a solution to keep the SP fixed network scalability, because SP can design, specify, and manage all VPN services on the terms of the contract that has been agreed with each customer. VRF is a major element of the MPLS VPN technology. VRF only are the PE routers only. VRF routing table are independent on the PE router. VRF contains routes available to reach the network sites that exist across the property of their respective VPN. This papers research the latency and the packet loss in network combining VPN MPLS and VRF.

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Index Terms

Computer Science  Wireless

Keywords

Virtual Private Network  Multi Protocol Layer Switch  Virtual Routing and Forwarding