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[Domestic paper] A Study on Ethernet-PON System functionality for L2/L3 MPLS based VPN service

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abstract

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Existing subscriber networks have acted as a bottleneck for various multimedia service traffic, and optical subscriber network technology has emerged as an alternative. Optical subscriber networks have been delayed in technology development and installation due to the very high initial installation cost, but they are gaining momentum with the development of [Passive Optical Network \(PON\) technology with good cost-effectiveness](#). In this paper, we study the functions that must be supported by [Optical Network Units \(ONUs\)](#) and Optical Line Terminals (OLTs) in Ethernet-PON-based optical subscriber networks connected to MPLS/IP backbones for the development of VPN technology provided by network operators based on L2 / L3 MPLS .

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Research topic	
Research Methods	
Research Results	
Problem definition	- and ONU/OLT subn the systemDetails required to implement VPN serviceFunction and SLA(Service) of L2/L3 MPLS-based VPN serviceIn terms of Level AgreementWe will discuss about it - In this paper, we present a viable alternative to optical subscriber networks. Technology Ethernet-PONProvided by the system and network operatorL2/L3 MPLSAfter looking at the underlying VPN technology,Ethernet- PONProviding L2/L3 MPLS-based VPN services inFor OLT/ONUConsider the features that should be implemented inI saw

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☒ yes

☐ no



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