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Carrier Supporting Carrier - requirements and deployment

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Abstract

Objectives: *Multiprotocol Label Switching (MPLS) Virtual Private Network (VPN) Carrier Supporting Carrier (CSC) enables one MPLS VPN-based service provider to allow other service providers to use a segment of its backbone network. Carrier Supporting Carrier (CSC) is implemented in circumstances in which one service provider needs to use the transport services provided by another service provider. The service provider providing the transport is called the backbone carrier and the service provider using the services provided by the backbone carrier is called a customer carrier. The customer carrier can either be an ISP provider or an MPLS VPN service provider. In my study, I have taken the case of the carrier customer is a service provider running MPLS VPN.*

Methods/Analysis: *In this project, we are giving interconnection between customer branches of ISP1. The POP locations of ISP1 are running with MPLS and ISP1 POP locations are interconnected via other ISP Backbone carrier ISP2 using MPLS network. Customers connected in POP sites 1 and POP sites 2 to ISP1, are using BGP protocol to send the network information to ISP1 in their respective location. ISP1 is also running BGP, collecting the information of Customers from both the POP sites using BGP protocol and sharing this information from POP1 site to POP2 site via backbone carrier ISP2.*

Application: *Backbone carrier ISP2 creates an MPLS link with both POP sites of ISP1 and carries customer network information via ISP2 network such that both the customer branches can share data across POP locations.*

Results: *The above network was simulated using GNS3 network simulation tools and the reach ability between the two customer sites of ISP2 the customer carrier was tested, with success.*

Author Keywords

MPLS Technology, VPN, Carrier Supporting Carriers, MPLS VPN, Private networks, MPLS VPN, VPN implementation, Service provider

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