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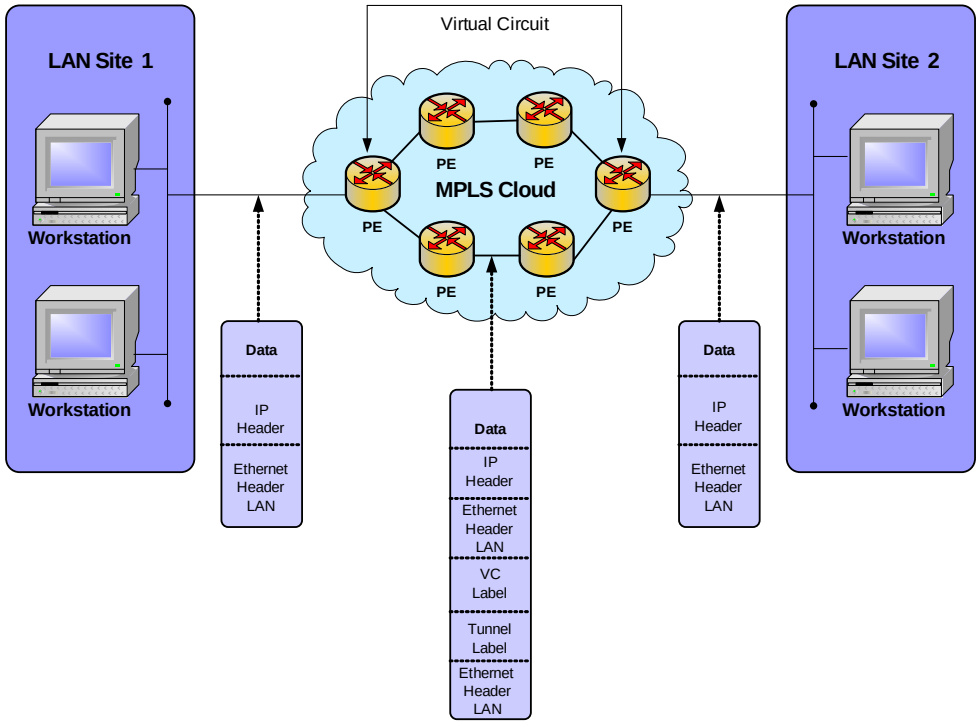
ZebOS®
Network Platform

MPLS Layer 2 Virtual Circuit Module

Overview

IP Infusion's ZebOS® Network Platform MPLS Layer 2 Virtual Circuit (VC) Module is an implementation of draft-martini-l2circuit-trans-mpls-08 and draft-martini-l2circuit-encap-mpls-04, and is an extension to the existing ZebOS LDP Module. An MPLS Layer 2 VC extends a customer LAN across an MPLS network. First, Ethernet frames from the customer LAN are encapsulated with a VC label, then sent over an MPLS LSP tunnel to the remote LAN (see the figure below). The egress Provider Edge (PE) router pops the VC label and delivers Ethernet frames to the remote customer LAN.

The ZebOS MPLS Layer 2 VC module requires extensions to the ZebOS LDP, ZebOS NSM, and the ZebOS MPLS Forwarder; these extensions are included in the relevant module. The ZebOS MPLS Layer 2 VC Module is a control-plane software module that can integrate into a range of network processor environments. It is pre-configured to support many popular operating systems.



Model of a Virtual Circuit in an MPLS Cloud

Features

- IETF draft compliant implementation
- Support for Ethernet encapsulation

- Command Line Interface (through ZebOS NSM)
- Forwarding on Linux and Ethernet only

Benefits

- Stable, robust implementation of draft Martini/Ethernet over MPLS
- Fully integrated with ZebOS NSM and ZebOS LDP Modules
- Support for scalable MPLS Layer 2 Virtual Circuit
- Generic API to integrate with MPLS Forwarder Module
- Interoperability with popular MPLS switching platforms
- Delivers significant time-to-market advantage for customer
- Platform-independent implementation

Requirements

- ZebOS Network Services Module
- ZebOS LDP Module
- A Routing Protocol Module

Standards Support

- draft-martini-l2circuit-encap-mpls-04 — Encapsulation Methods for Transport of Layer 2 Frames over IP and MPLS Networks
- draft-martini-l2circuit-trans-mpls-08 — Transport of Layer 2 Frames Over MPLS

Standard Deliverables

- Source Code (written in ANSI compliant C)
- Installation Guide
- Configuration Guide
- Command Reference Guide
- Developer Guide