

Use of BGP-MP for Layer 2 VPN

by

Tissa Senevirathne

1. Use RFC 2547 framework

Providers can use the same control plane to provide both Layer 3 and Layer 2 VPN services

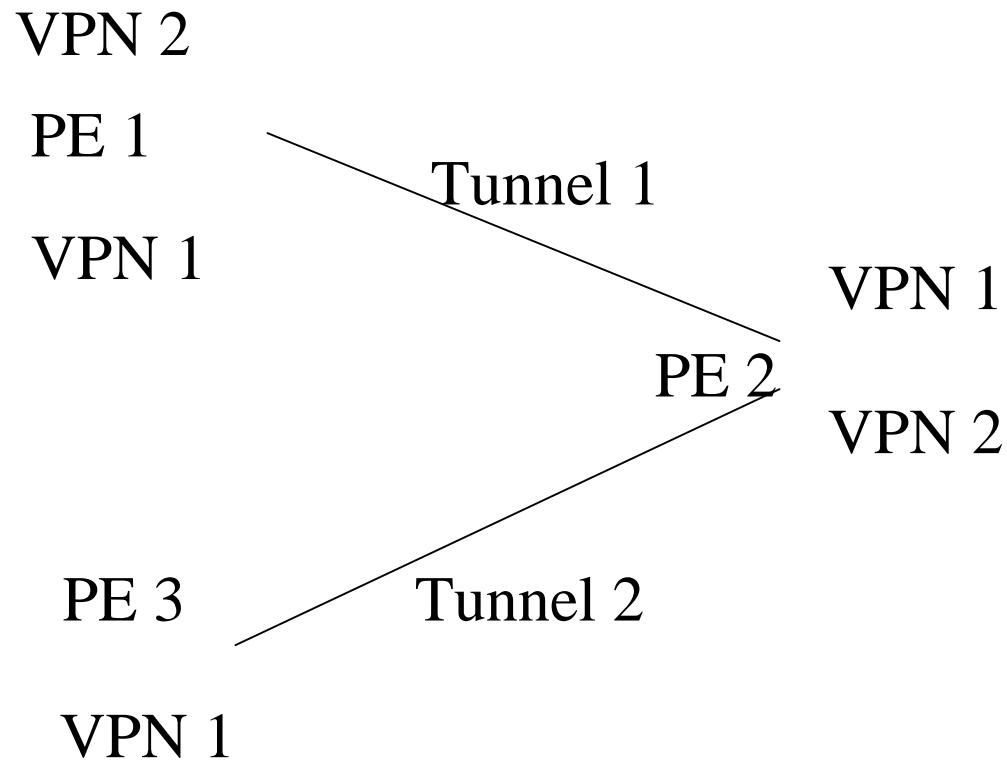
2. Allows to discover and provision Layer 2 VPN across AS

Key Points

Distributes VLAN span (scope)

Need to Learn MAC addresses locally
(no distribution)

In Layer 3 VPN only route distribution



VFI = function(tunnelID, inner Label(key))

tunnelID → Logical interface

Transit AS are required to pass BGP-MP extensions
This is a local policy (may use things like route target and route origin)

Works for pt-pt Layer 2 VPN

Works for mt-pt-mt Layer 2 VPN

Can share tunnels

Feedback

What is missing, what is overdone etc..