

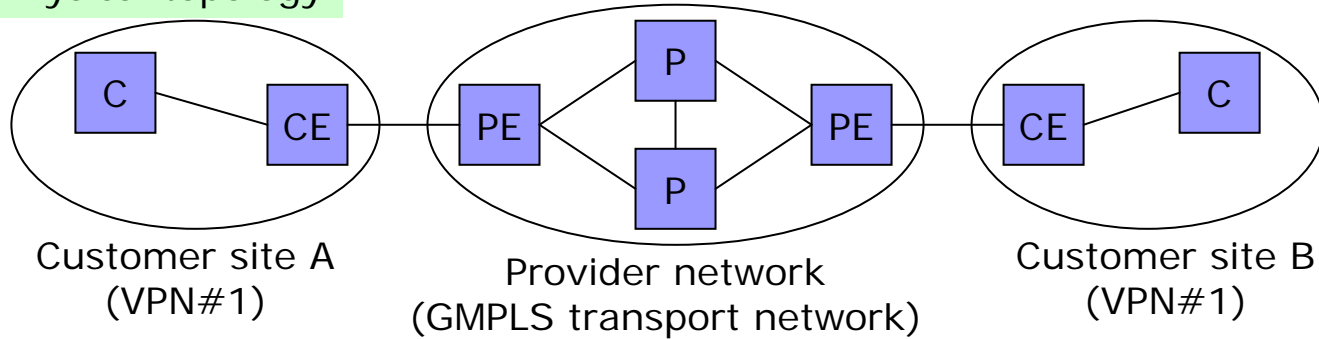
***Managed Security  
Services Provider (MSSP)***

Generalized Multiprotocol Label  
Switching (GMPLS)

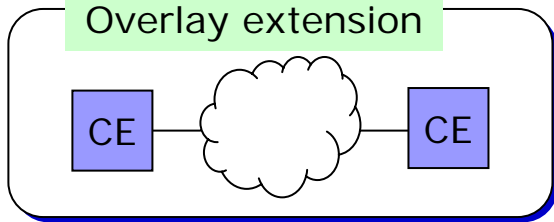
connet

# enhanced mode

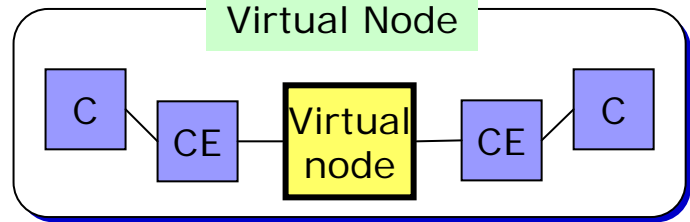
## Physical topology



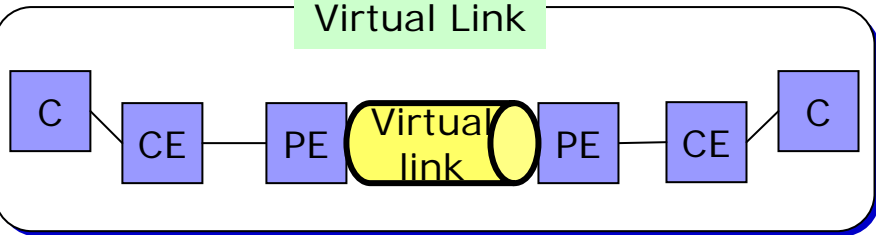
## Overlay extension



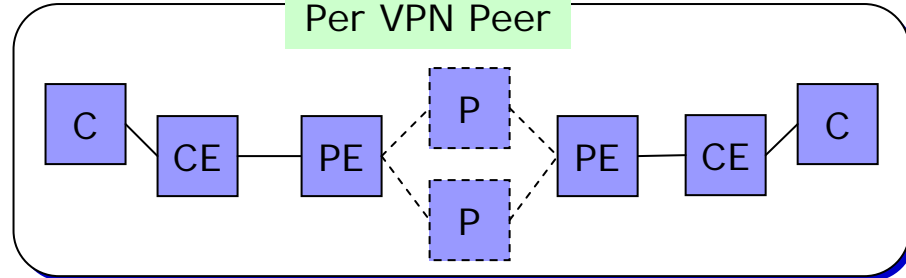
## Virtual Node



## Virtual Link



## Per VPN Peer



TE information or reachability only

# applicability analysis

	Existing Solution	Additional Work
Overlay Extension	<ul style="list-style-type: none"> <li>• [GVPN] (or [L1VPN-BGP-DISC]) → CE-PE membership information exchange</li> <li>• [BGP-TE] → CE-PE TE link information exchange (optional)</li> </ul>	None?
Virtual Node	<ul style="list-style-type: none"> <li>• [GVPN] → Forming a private routing between a CE and a PE → Advertising the provider network as a single node</li> </ul>	<ul style="list-style-type: none"> <li>• None?, but maybe valuable to focus on a specific routing configuration (e.g., single area, multi-area, multi-AS) for simplified solution</li> </ul>
Virtual Link	None	<ul style="list-style-type: none"> <li>• Extend [GVPN] (straight-forward)</li> </ul>
Per VPN Peer	None	<ul style="list-style-type: none"> <li>• Combination of Virtual Node and Virtual Link</li> <li>• But may not be straight-forward?</li> </ul>