

# L2VPN Design Team Goals

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# DT Charter

- Service model – bridge (VPLS)
- Architecture/terminology
- Deployment scenarios: core VPLS, hierarchical/distributed VPLS, fully meshed pt2pt
- Functions of the service - discovery, signaling, UNI/LMI
- Functions of the various nodes: signaling, discovery, layer2 learning, etc.
- scalability of MAC addresses, DLCIs, CEs, PEs, STP, etc.
- bandwidth issues on a per VPN basis: how to specify and allocate bandwidth
- provisioning effort at each node
- possible integration with other pvpn models
- reuse of models with different “transport” tunnels
- compare the scalability/deployment issues for each solution => applicability statements
- address security issues

# BGP signaled L2VPNs

draft-kompella-ppvnp-l2vpn-01.txt	Base BGP L2VPN draft (including fully meshed pt2ptVPN)
draft-shah-mpis-l2vpn-ext-00.txt	Extension to base BGP L2VPN draft
draft-shah-mpis-l2vpn-reduce-00.txt	Extension to base BGP L2VPN draft
draft-kompella-ppvnp-vpls-00.txt	VPLS base extension to kompella-l2vpn

Note: BGP signaling has discovery built-in, with the full-mesh between iBGP peers.

# LDP Signaled L2VPNs

draft-martini-l2circuit-trans-mpls-08.txt	Base pt2pt signaling for LDP
draft-lasserre-vkompella-ppvnp-tls-00.txt	Base VPLS draft (martini+)
draft-rosen-ppvnp-l2-signaling-00.txt	Single-sided pt2pt VC and VPN
draft-heinanen-dirldp-uni-vc-vpns-01.txt	Dir based VPN member discovery
draft-heinanen-dirldp-eth-vpns-01.txt	Dir based VPN member discovery

# RSVP Signaled L2VPNs

draft-cai-ppvnp-vc-rsvp-te-00.txt

RSVP-TE for VPNs and pt2pt VCs

# Hierarchical/Distributed VPLS

draft-khandekar-ppvnp-hvpls-mpls-00.txt

Hierarchical VPLS deployment

draft-kompella-ppvnp-dtls-00.txt

Decoupled VPLS deployment

draft-ouldbrahim-l2vpn-lpe-01.txt

Distributed VPLS

draft-menezes-inter-city-man-mpls-00.txt

MAN VPLS deployment

draft-knight-l2vpn-lpe-ad-00.txt

Intra-LPE protocol

# Possibly out of scope of DT

draft-tsenevir-l2vpn-gre-00.txt

GRE encapsulation + more

Not sure about this

- describes an encapsulation, not a signaling protocol
- uses the informational RFC 1702, not RFC 2784, which doesn't have all the fields being used