MPLS

MPLS		
· · · · · · ·	- retention: - liberal (IOS) / - control - independent	tform label space ownstream (IOS) / downstream on demand
MPLS VPN RRs RRs differ from other vpnv4 speakers with RT unknown, but forward them RR Groups We can have RR groups that only per Even/Odd)	unmodified.	 Hub&Spoke: usually 1 RD / spoke, 2 RTs no-decrement-TTL (Juniper, spec. LSP) no-propagate-TTL (interoperable) Default: propagate TTL TTL Expiration: ICMP Time Exceeded goes EgressLSR and is sent IP from there.
 OSPF metric is saved to ME Ext. community defined: OS if Domain ID != OSPF RID (J Sham Link: if backdoor link MPLSVPN. Sham Link is a fak normally. Its endpoints must Down Bit (in Lsa Type 3): if readvertise it back in MPLS V Domain Tag/Route Tag: sa EIGRP routes arrive as External (lil ISIS eBGP (not iBGP!) 	nsforms routes to External, so instea D SPF RouteType Attribute: Area, OSP Juniper compares with local Domain used, all routes through it (type1, 2, e link between PEs treated as demain the adv. in iBGP vpnv4 a PE adv. a route in OSPF area, sets /PN iBGP. Avoids loops. me thing but for Type 5. ke OSPF) so new Extended Communit AS with ISP AS so that the prefix is all f AS-path loop)	 D) advertised as Type 5 (E2) 3) will be preferred against Type3 through and circuit and all LSAs are sent through it Down Bit and another PE will not ties created for each needed element bwed on the other side)
L3 VPN. New NLRI: - mask - Label - RD (64bit) (uniq per VRF/VPN) - prefix Ext. Community: Route Target RT Routes discarded if non-local RT	L2 VPN Martini (LDP) Uses targeted LDP between PE Packet: - FEC type - C-Bit & VC Type (encapsulation - Group ID (not used) - VC ID - IF Params (MTU,)	L2 VPN Kompella (BGP) NLRI: - RD - Label Block Offset & Label Base (more labels can be announced) - SUBTLVs L2 Community: - Ext. community type
In ATM cells are reassmbl, by PE, ser	t as AAL5, segmented back at end	- Encap Type (4 ETHVlan, 5 ETH)

- L2 MTU

VCID in Junos: remote-site-id

In **ATM** cells are reassmbl. by PE, sent as AAL5, segmented back at end Vlans must match! DLCI not. **IP Interworking**: different encaps at ends.

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