

Design Concern	DMVPN	GETVPN
Scalability	Scalable	Much more scalable than DMVPN
Working on Full Mesh topology	Permanent hub and spoke tunnels and on demand spoke to spoke tunnels, it works but limited scalability	It works perfectly if the underlying routing architecture is full mesh topology, GET VPN needs underlay routing
Working on Hub and Spoke	Works very well	Works very well
Suitable on private WAN	Yes	Yes
Suitable over Public Internet	Yes	No. GETVPN cannot run over Public Internet because of IP header preservation
End point discovery	To setup the Mgre tunnels uses underlay routing, for the private address discovery uses NHRP (Next hop Resolution Protocol)	It uses underlay routing to create VPN, there is no overlay tunnels
Tunnel Requirement	Yes, it uses Mgre(Multi Point GRE) tunnels to create overlays	It is tunnelled VPN, uses underlying routing to encrypt the data between endpoints
Standard Protocol	No,Cisco proprietary	No,Cisco proprietary but Juniper also supports the same idea with Group VPN feature
Stuff Experince	Not well known	Not well known
Overlay Routing Protocol Support	Except IS-IS other routing protocols are supported, IS-IS runs on top of Layer 2 but only IP protocols can run over DMVPN	It is tunnelled VPN so routing protocols cannot run on top of GETVPN but it requires underlying routing protocols to setup the communication
Required Protocols	NHRP and Mgre	GDOI and ESP
QoS Support	Good, can support per tunnel QoS which uses shaping on the DMVPN Hub to protect capacity and SLA	Good, it uses underlying network's QoS architecture,in addition to queueing,shaping at the GET VPN Group Members to protect SLA is enabled
Multicast Support	Multicast over the tunnel is handled at the DMVPN Hub. Hub replicates multicast traffic which is not efficiend	Native multicast support.Multicast replication is done in the network, doesn't need Hub device to replicate. Multicast MDTs (Source , Shared) are used in the traditional way, so multicast handling of GETVPN is much better than DMVPN
Security	Point to Point IPSEC SA	Multipoint to Multipoint IPSEC SA
Resource Requirement	More	Less
IPv6 Support	Yes,it can be setup over IPv6 transport or it can carry IPv6 payload. So IPv6 over DMVPN and DMVPN over IPv6 both are possible	Yes
Default Convergence	Slow	Fast
Can run over other VPN ?	DMVPN is already tunneled VPN technology so only routing is enough, it doesn't make sense to run tunnel over tunnel	GETVPN can run over DMVPN since GETVPN is tunnelless technology, use case of GETVPN over DMVPN is to carry private addressing over Internet. Most common use case of GETVPN is over MPLS VPN or VPLS since both VPN technologies are full mesh by default and GET VPN provides very good scalability for encryption