

L3VPN End-System Requirements

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Requirements Overview

- Communication/Addressing (section 3)
- Multi-Tenancy (section 4)
- Decoupling from physical infrastructure (section 5)
- Decoupling from layer 2 topology (section 6)
- Encapsulation of virtual payloads (section 7)
- Optimal forwarding (section 8)
- IP Mobility (section 9)
- Inter-operability with router-based MPLS/BGP VPN (section 10)
- BGP in a Virtualized Environment (section 11)
- Service Chaining and Load Balancing (section 12)
- Security (section 13)

Changes from 02 to 03 version

- Added Service Changing Requirements
 - Support service chaining MPLS/BGP VPN virtual net working through routing.
 - Support load balancing where both, virtual and physical service appliances are present.
 - Support symmetric forward/reverse paths for flows with minimal traffic disruption when service instances are added to or removed.
 - Support packet header changes through the service chain.

Next Step

- Comments, input are welcome.
- Asking L3VPN WG for WG adoption.