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# IETF 125 LSVR L3DL and L3ND

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# Layer-3 Discovery and Liveliness (L3DL)

- Adopted as LSVR WG document circa 2019
  - “Layer-3 Discovery and Liveness” - draft-ietf-lsvr-l3dl
- Requires MAC multicast MAC address for discovery
- LLDP extended to support multiple frames (also referred to as LLDPv2)
- Alternate proposed of simply taking existing L3DL TLVs and copying them to LLDP
  - “Using IEEE Std 802.1AB (LLDP) for IETF LSVR neighbor discovery and configuration” - draft-bottorff-lsvr-lldp
- Could operate w/o multicast MAC but would require discovery via a different protocol (e.g., LLDP) which is suboptimal.

# Layer-3 Neighbor Discovery (L3ND)

- “Layer-3 Neighbor Discovery” - draft-ymbk-lsvr-l3nd (originally in IDR as draft-ymbk-idr-l2nd, Circa early 2022)
  - Multicast Hellos for Discovery
  - TCP Session for information exchange
  - Extendible to other uses (e.g., congestion notification, ECMP balancing, etc.)
- Layer-3 protocol with no requirement for unique Multicast MAC address.
- Current direction – will ask for adoption in place of L3DL.