Virtual Private Lan Services (VPLS) Management Information

draft-nadeau-l2vpn-vpls-mib-01.txt
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What are we trying to do?

- Satisfy WG charter item for MIB to manage VPLS
  - both BGP and LDP-based approaches.

Draft Contains

- Three SNMP MIB modules.
- Updated from -00 based on comments from list.
What is New?

- Document divided into 3 MIB modules: one generic, LDP and BGP.
- Addressed many comments on the list. Some open issues remain...
Open Items

- Should the MIB modules be read-write or read-only?
- Add number of attachment circuits per VSI.
- Add PwBindTable (contains PWs bound to VSI)
- Add VsiPerfTable (contains number of PWs in VSI, numberLearnedMac)
- Define: vplsOperStatus: current values are unknown, up or down. Propose adding a value 'partialMesh'. Definition of operStatus of VSI: 1 or more PW + 1 or more ACs up == OperStatusUp.
- Proposed addition to vplsStatusTable to indicate the number of Mesh Peers in this VPLS instance.
Open Issues

- **vplsSpokePeerCount**: proposed addition to `vplsStatusTable` to indicate the number of Spoke Peers in this VPLS instance.

- **VPLS LDP Qualified Learning/Unqualified Learning** mode on the VSI. Read-only.

- Get IEEE 802.x objects we must look in the IEEE/IETF Bridge MIB.

- **vplsMacAging/Learning**: these are currently mandatory requirements in the MIB even though they are not part of the standard itself. Remove them or put them in an optional group? Rely on IEEE/IETF Bridge MIB?

- **vplsACBindTable**: proposed table to bind Attachment Circuits to a VPLS.

- Watermarks for MaxMacAddrs `vplsMacLearning`, `vplsDiscardUnknownDest`, forwarding table size.

- **vplsPwConfigType** maintains auto-discovery method (configured).
Next Steps

- Need update based on resolutions of open issues just discussed. This will be the third revision of this draft.

- Publish as L2 VPN WG document?