Virtual Private Lan Services (VPLS) Management Information

draft-nadeau-l2vpn-vpls-mib-01.txt

Tom Nadeau, Editor

Kiran Koushik, Rohit Mediratta,Praveen Muley, Reva Bailey, Li Wentao, Kong Yong,

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 third revision of this draft.

- Publish as L2 VPN WG document?