Issue: How to do endnode learning?

Radia Perlman

Radia.Perlman@sun.com

Note

- Only bridges attached to VLAN A need to know VLAN A endnodes
- Ingress RBridge maps destination endnode to egress RBridge
- Puts egress RBridge in encapsulation header

Encapsulation Header

S=Xmitting Rbridge D=Rcving Rbridge pt="transit"	hop count Egress RBridge	original pkt (including L2 hdr)

Possibilities

- Include endnodes along with RBridge connectivity in a single IS-IS instance
  - Issue: although non-VLAN-A RBridge can ignore the VLAN A endnode info, it has to store it
- Run separate IS-IS instance per VLAN
  - VLAN A instance run over VLAN A broadcast domain created by main IS-IS instance

Another possibility

- Don’t include endnode information in link state information
- Instead, put “ingress RBridge” into shim header (in addition to “egress RBridge”)
- Then can learn based on seeing data packets

Encapsulation Header

S=Xmitting Rbridge D=Rcving Rbridge pt="transit"	hop count Egress RBridge Ingress RBridge	original pkt (including L2 hdr)

Recommendation

- Again, after consultation with IS-IS people, recommendation was for separate IS-IS instance per VLAN