P802.1ah D2.01 Comment

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March 2006
PBB Functions

- SVID/ISID Mapping (SVID numbering coordination)
- BMAC Encapsulation (MAC scaling)
- ISID/BVID Tunneling (VLAN scaling)
SVID$\leftrightarrow$ ISID Mapping

Edge-to-edge Service Instance
C-DMAC + ISID $\leftrightarrow$ B-DMAC Mapping

Identify B-DMAC on the path to a C-DMAC associated with a service instance.

Encapsulate C-MAC addresses within B-MAC addresses. Shield PBBN core bridges from C-MAC addresses for scaling purposes.
ISID over BVID tunneling

Provisioned tunneling of ISID over B-VLAN

Tunneling of ISID in B-VLAN shields PBBN core bridges from ISID in order to provide SVLAN scaling.
Proposals

Naïve view

I-Component

Local SVID ↔ Domain-global ISID mapping

I-TAG I/F

‘IB’-Component

C-DMAC + ISID ↔ B-DMAC mapping

ISID over BVLAN Tunneling

‘Converged’ proposal in draft

B-Component

C-DMAC + SVID ↔ B-DMAC mapping

Local SVID ↔ Domain-global ISID mapping

‘IB’-TAG I/F

ISID over BVLAN Tunneling
Why the ‘converged’ model?

- Allows PBB to be built using 2 X bridge hardware
  - But reference model is not a ‘design’.
  - Vendors free to implement 2 X bridge design
    - But reference model doesn’t need to show this
    - Reference model should provide *simplest* specification that is technically accurate

- Disallows interface that looks like: ‘S-interface with SVID replaced by ISID’
  - Because there is opposition to such an interface
  - If we assume that there is a reason to disallow such an interface, is it necessary to change the reference model?

- Suggest ‘straw poll’ on technical merits of alternative models.