PB I-TAG Interface

PAR amending P802.1ad to optionally support PBN interconnection across non-802 WAN media

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Role of PB I-TAG Interface

Provider Bridge

C-DA  C-SA  S-TAG  C-TAG  Client Data  FCS

PBN-facing Port

WAN Access Port

I-TAG Shim

C-DA  C-SA  I-TAG  C-TAG  Client Data  FCS

PBN interconnection over e.g. MPLS
(proposed optional function for PB)

E.g., IETF Martini LER

VC Shim

VC  C-DA  C-SA  I-TAG  C-TAG  Client Data  FCS

tunnel Shim

tunnel  VC  C-DA  C-SA  I-TAG  C-TAG  Client Data  FCS

PBN interconnection over PBBN
(from 802.1ah draft)
PAR for PB I-TAG Interface

1. Providers will interconnect PBNs across MPLS, V-Switch and other non-802.1ah technology.
2. Do not want overhead of MAC encapsulation and BVID when not needed.
3. Do not want to deploy 802.1 PBB (edge) just to get SVID/ISID mapping.
4. Alternative is making MAC encapsulation and BVLAN MUX optional in 802.1ah, but prefer not to impact 802.1ah progress.
   • If necessary optionality is already explicit in 802.1ah, this request will be withdrawn.