# IEEE802.1Qay

## Project Status

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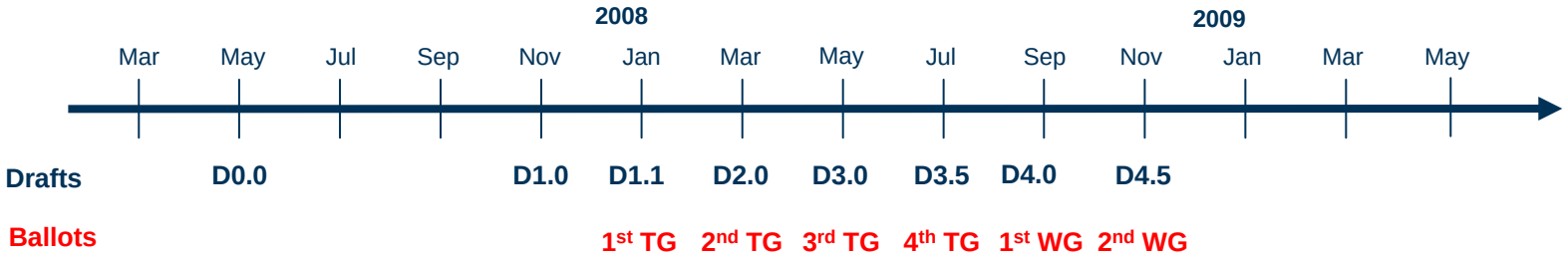
# PBB-TE Current Status

- Draft P802.1Qay/D4.5 has been released on Oct 6th.
- The is the second draft to enter a Working Group Ballot. The ballot closed on Nov 6th.
- Aim is to enter a Sponsor Ballot in the 1st quarter of 2009
  - 2 more meetings till March 2009
  - One new draft version per meeting



# P802.1Qay/D4.5 major changes

- Updates related to the description of active topologies, forwarding and learning process and to the filtering database query, which make the original description clear;
- Updates on the Protection Switching state machine related to the application of the Hold-off timer to all signal failures and to the split of the description in three sets of state machine diagrams;
- Updates on Annex A in order to align the PICS statements with the latest changes;
- A number of editorial updates.

# Ballot statistics

- 77 members have answered (the current total number of voting members is 107)
- 24 members have sent approve ballots
- 5 members have sent disapprove ballots

| | 1st TG | | 2nd TG | | 3rd TG | | 4th TG | | 1st WG | | 2nd WG | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Approve** | 0 | 0% | 0 | 0% | 12 | 43% | 23 | 68% | 26 | 68% | 24 | **83%** |
| **Disapprove** | 28 | 100% | 28 | 100% | 16 | 57% | 11 | 32% | 12 | 32% | 5 | 17% |
| **Abstain** | 54 | 65% | 42 | 60% | 43 | 59% | 44 | 56% | 44 | 52% | 48 | 62% |
| **Total** | 83 | | 71 | | 74 | | 79 | | 82 | | 77 | |

# Ballot statistics

- A total of 124 comments have been received

| | 1st TG Ballot | | 2nd TG Ballot | | 3rd TG Ballot | | 4th TG Ballot | | 1st WG Ballot | | 2nd WG Ballot | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **TR** | 221 | 50.80% | 191 | 45.05% | 101 | 42.98% | 56 | 28.57% | 70 | 35.90% | 28 | 22.58% |
| **T** | 36 | 8.28% | 15 | 3.54% | 32 | 13.62% | 28 | 14.29% | 9 | 4.62% | 10 | 8.06% |
| **ER** | 121 | 27.82% | 166 | 39.15% | 68 | 28.94% | 52 | 26.53% | 67 | 34.36% | 55 | 44.35% |
| **E** | 54 | 12.41% | 48 | 11.32% | 33 | 14.04% | 58 | 29.59% | 49 | 25.13% | 31 | 25.00% |
| **O** | 3 | 0.69% | 4 | 0.94% | 1 | 0.43% | 2 | 1.02% | 0 | 0.00% | 0 | 0.00% |
| | 435 | | 424 | | 235 | | 196 | | 195 | | 124 | |

# Major comments

- Point-to-multipoint service encapsulation (#5, #115)
- Definitions (#56, #57, #88, #9, #35, #44)
- Protection Switching state machine (#15, #43, #124)

# Definitions (1)

- **PBB-TE Region**: A PBB-TE Region comprises a contiguous set of IB-BEBs and BCBs, capable of providing TE service instances, that have allocated a common subset of ESP-VIDs (B-VIDs) to an external agent which provides the active topology construction mechanism within this ESP-VID space and manages the Filtering Database of Bridges within the region to control the forwarding of frames with particular values of ESP-VID and destination MAC address.
- **ESP-VID**: A VID associated with a special value of the MSTID in the MST Configuration Table, the TE-MSTID, indicating that the VID is under the control of an external agent responsible for setting up Ethernet Switched Paths. Learning is disabled and forwarding is enabled for all frames allocated to ESP-VIDs.

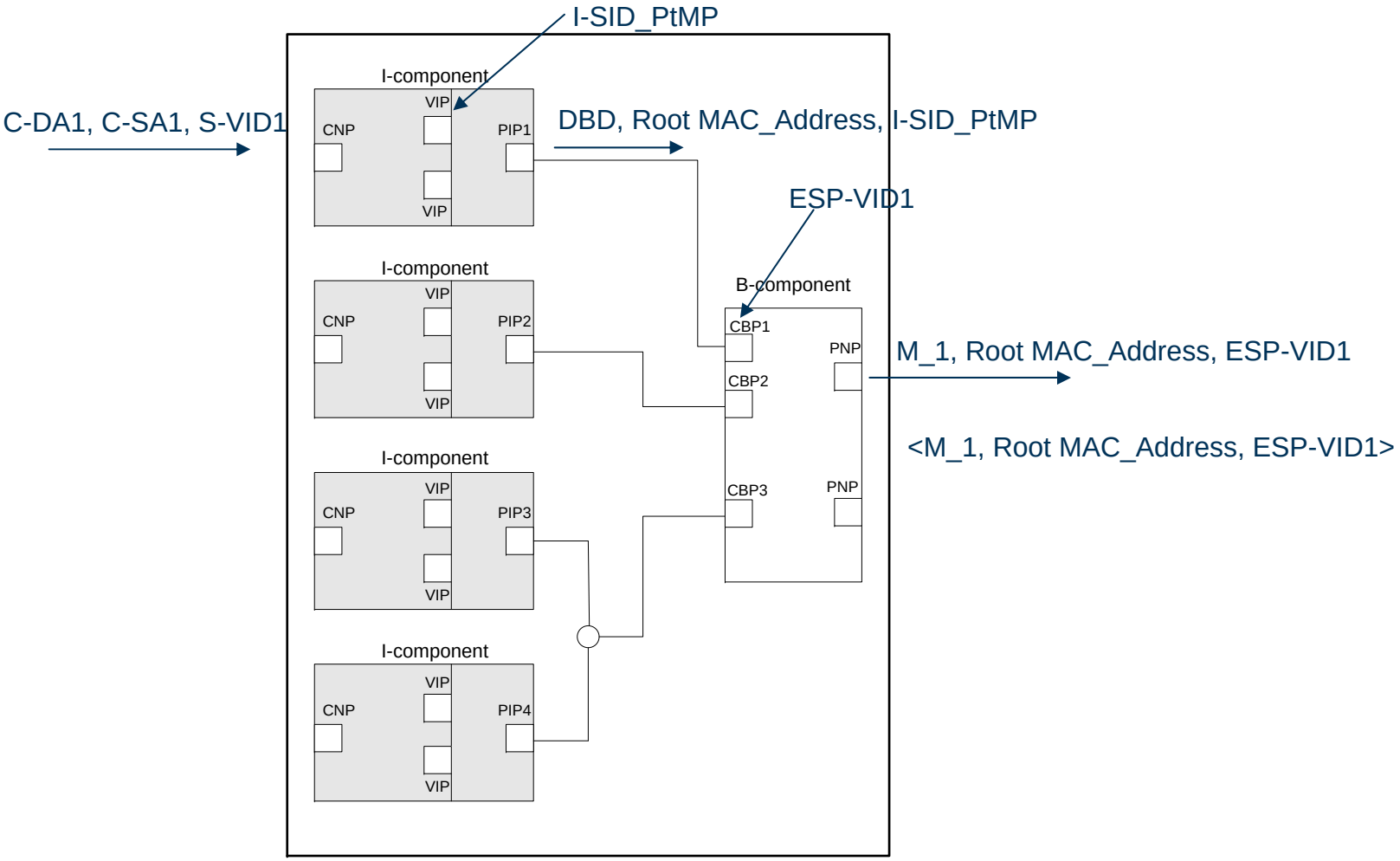
# Definitions (2)

- **Force switch**: An administrative command to force the backbone service instances that are assigned to a TE protection group to be carried by this group's protection entity.

- **Manual switch:** An administrative command to move the backbone service instances that are assigned to a TE protection group to a specific TESI associated with this TE protection group in absence of signal failures on both of the entities in the group.

# Mapping a customer instance to a PtMP TESI

<M_1, Root MAC_Address, ESP-VID1>
<Root MAC_Address, Leaf_1 MAC_Address, ESP-VID2>
…
<Root MAC_Address, Leaf_n MAC_Address, ESP-VIDn>



# Mapping a customer instance to a PtMP TESI

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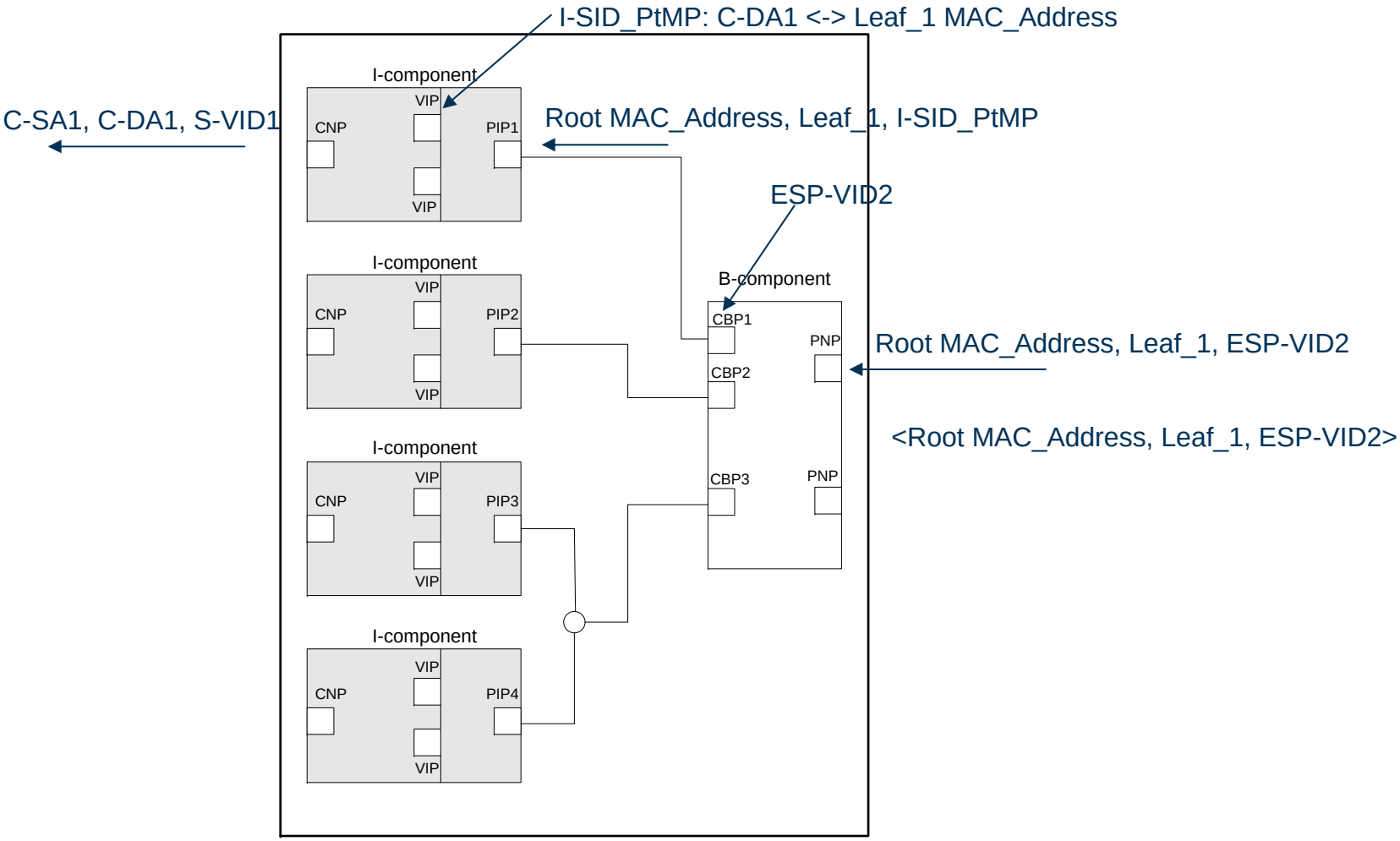
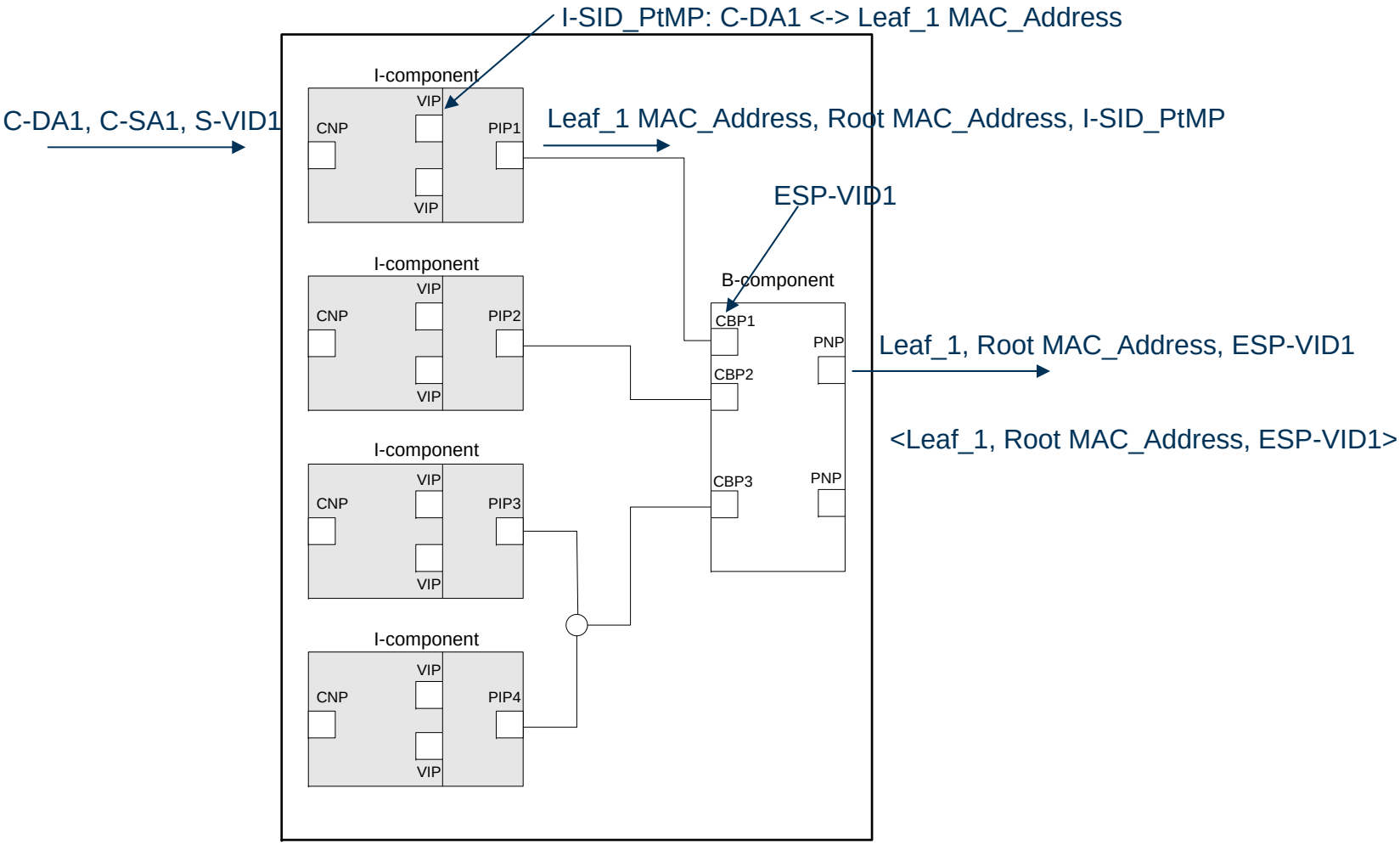


# Mapping a customer instance to a PtMP TESI

<M_1, Root MAC_Address, ESP-VID1>
<Root MAC_Address, Leaf_1 MAC_Address, ESP-VID2>
…
<Root MAC_Address, Leaf_n MAC_Address, ESP-VIDn>



# PtMP Encapsulation - Solution

- A new parameter enableConnectionIdentifier  on the VIP needs to be introduced.
- The default will be True.
- When configured to false the connection_identifier is always null on indications and ignored on requests.

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