Proposal on shared tree root selection

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Current mechanism for shared tree root selection

- If assume there are Node A – Node F in a SPBM ECMP domain
  - Provisioned Tie-Break Mask = 0x6 (binary 0110)
  - provisioned Bridge Priority (A < B < C < D < E < F)
  - Bridge ID = Bridge Priority (higher 2 bytes) + SPB System ID (lower 6 bytes)
    - achieved Bridge ID (A < B < C < D < E < F)
  - Masked Bridge ID = XORs (Tie-Break Mask) with (Bridge ID)
    - Masked Bridge ID = XORs (01100110...0110) with (Bridge ID)

- Then the node with the best (least) masked Bridge ID is the selected root Bridge

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Reason to do modification

The current mechanism: indirect two-steps selection. It's complicated and reduce the predictability of the sorting.
Optional new mechanisms

The optional new mechanism 1: direct **one-step** selection. New sub-TLV in LSP is **still** needed

The optional new mechanism 2: direct **one-step** selection. New sub-TLV in LSP is **not** needed
Proposal

• Modify the current mechanism for shared tree root selection to make it simpler and more direct
  – Include optional new mechanism 1 or
  – Include optional new mechanism 2 or
  – Include optional new mechanism both 1 and 2
Thank you!