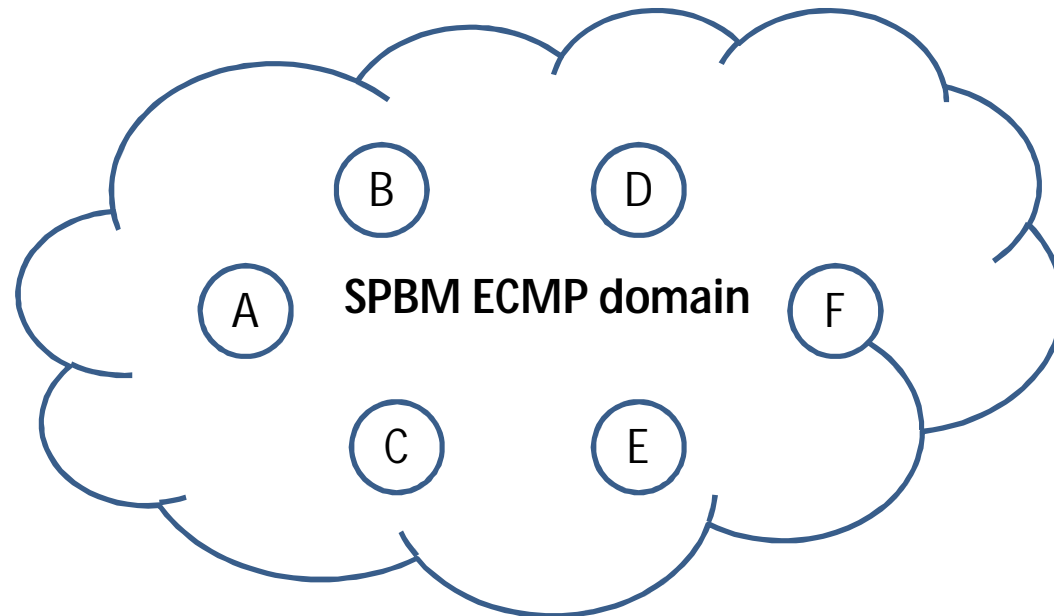


Proposal on shared tree root selection

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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)
à achieved Bridge ID (A < B < C < D < E < F)
 - Masked Bridge ID = XORs (Tie-Break Mask) with (Bridge ID)
à Masked Bridge ID = XORs (01100110...0110) with (Bridge ID)
- Then the node with the best (least) masked Bridge ID is the selected root Bridge

Reason to do modification

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

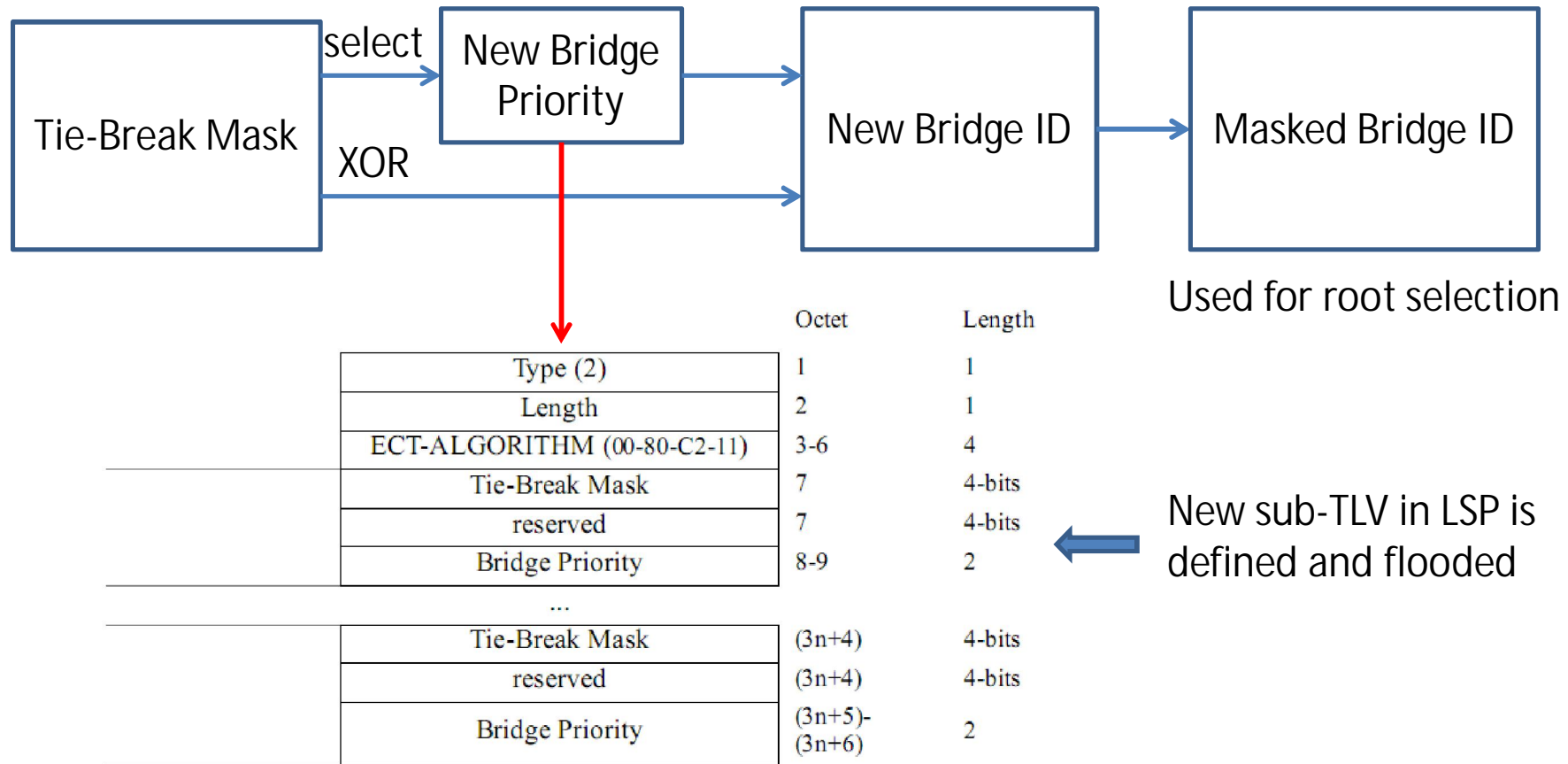
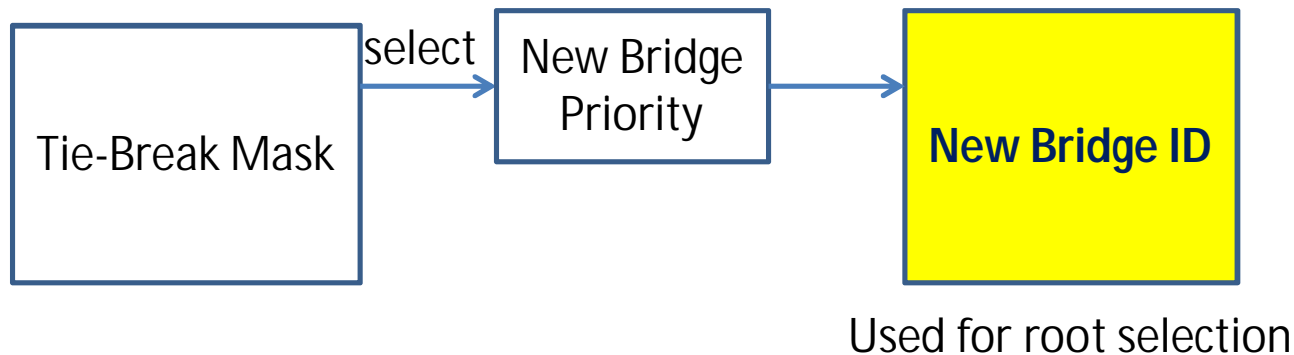


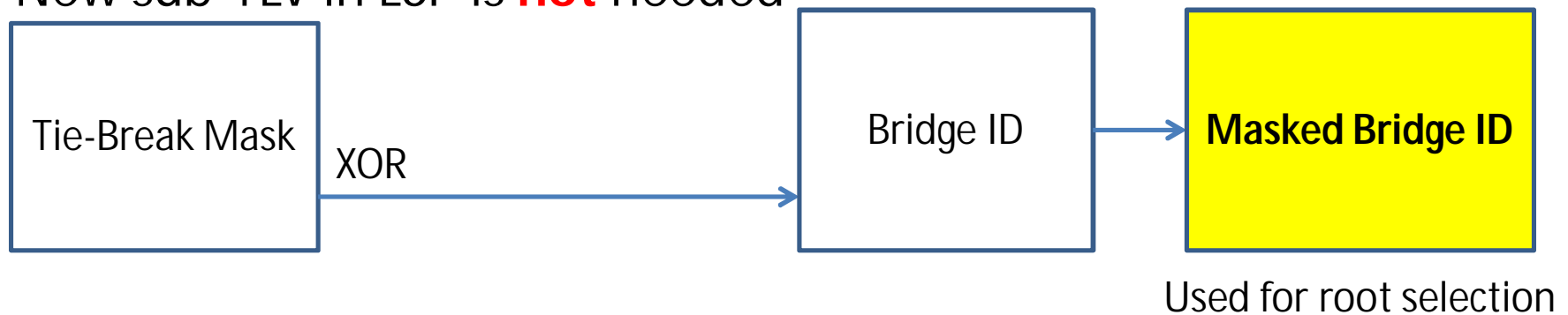
Figure 28-1—ECMP ECT-ALGORITHM sub-TLV

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!