Shortest Path Bridging IS-IS Data Models

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Hi Level SPB Data

- Topology (Base VLAN)
  - Nodes and Links or Ports and LANs
  - Can build a Shortest Path Tree
- Multicast
  - Source Address & Source Bridge
  - Destination Multicast Address* & Destination Bridges
  - Can build all pairs shortest path and populate multicast

* Needs a Source Identifier
a) Hello Symmetric ECMT BASE-VID TLV

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<th>M-T ID</th>
<th>S</th>
<th>Reserved</th>
<th>N-VIDs</th>
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<tr>
<td>Algorithm</td>
<td>Reserved</td>
<td>B</td>
<td>VID-IX</td>
<td>Base VID</td>
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Per Bridge (But must be Base VID consistent for all bridges)

b) SPB Instance TLV

c) Link Metric Sub TLV

d) SPB I-SID & Unicast B-MAC TLV

Per Adjacency

Per Bridge
Some Comments

- At this high level a lot of things look similar
  - SPB and SPBB are the same.
  - Trill looks similar

- If a LAN is point to point then Links and LANs are very similar, but if LANs are multipoint there is more.

- Where to put the additions to IS-IS