| ISIS-Hello | ECT-ALGORITHM=00-80-C2-11 (after .1aq's)  
|           | B-VID = VID|0  
|           | If VID = 0 then no B-TAG  
|           | else normal B-TAG.  
|           | Only one ECT-ALGORITHM required and only one B-VID (or 0) required.  
|           | Multiple B-VIDs may be used but only one ECT-ALGORITHM for Qbp now.  
| ISIS-LSP OPAQUE | ISID-ADDR-TLV  
|           | B-VID (as above)  
|           | Tx;Rx;Ts;x, SUB-ALG:5, ISID:24 or Reserved:1:SUB-ALG:4...  
|           | ISID in Qbp mode when B-VID matches ECT-ALGORITHM VID (above).  
|           | Tx=(S,G) Transmitter, Rx=Receiver, Ts=(*,G) Transmitter  
|           | Tie breaking/root selection based on XOR against MASK[SUB-ALG] (similar to the 802.1aq CIST algorithm but with MASK)  
| Group DA Format | (*,G) => F(SUB-ALG)-xx-xx-xx  
|           | (S,G) => SpSource-xx-xx-xx  
|           | Head => B-DA  
|           | Shared TREE – identifies SUB-ALG (for RPFC) where xx-xx-xx is ISID.  
|           | Source TREE uses SPBM format where xx-xx-xx is ISID.  
|           | Head replication just uses normal unicast B-DA for each copy.  
| Compute | Unicast  
|           | Run SPF from self. On equal cost alternatives, “OR” ECMP sets of the two alternatives together to form ECMP set for this child (like OSPF/IP).  
| Compute | Multicast – Shared Tree  
|           | 16 trees, one per SUB-ALG when at least one Ts bit is set  
|           | Find node with lowest Bridgedentifier XOR MASK[SUB-ALG]. Run SPF with that node as root. When two equal cost choices, the child picks parent with lowest Bridgedentifier XOR MASK[SUB-ALG].  
|           | Then prune tree per ISID with Ts bit set. FIB DA is F(SUB-ALG)-xx-xx-xx  
| Compute | Multicast – Source tree  
|           | 16 per source, one per SUB-ALG when at least one Tx is set.  
|           | Same as above except that source is the Bridge with the ISID Tx bit set.  
|           | Then prune tree per ISID (same as AQ but not symmetric) because tie breaker only backtracks to parents to pick min masked Bridgedentifier.  
| Compute | Multicast – Head end replication  
|           | Head end builds replication over unicast tunnels to all ISID with Rx set.  
| Data Path | PBB + F-TAG [B-TAG optional]  
| Loop Mitigation | TTL  
|           | RPFC – (S,G)  
|           | RPFC – (*,G)  
|           | Decrement.  
|           | New – must check SA ECMP ‘set’ against L2 ECMP FIB, if matches any ok.  
|           | New – must lookup <SA, SUB-ALG> in new tables..  

802.1Qbp – single slide design - Peter Ashwood-Smith (peter.ashwoodsmith@huawei.com)  
red => undecided – obviously OA&M not included