

# Overview of layer2-isis draft structure and extensions draft

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July 2010

# Observations on layer2-isis work

- Significant non-overlap between 802.1aq extensions, TRILL and OTV
- Split the docs and create an 'architectural' draft
- Each technology doc will also need corresponding normative text to describe how the TLVs, subTLVs and PDUs (as appropriate) are used and impact on the protocol state machinery, adjacency formation, etc.

# Draft structure

- Doc 1: Baseline document – will be an introduction document for carrying L2 TLVs and will have all TLVs and PDUs that are common to at least \*two\* technologies (revised into the future).
- Doc 2: IEEE 802.1aq technology scoped document
- Doc 3: TRILL technology scoped
- NOT A WG DOC: OTV technology scoped document

# Doc 1 – Extensions draft

- MAC-RI TLV (141)  
MAC-Reachability
- MT-Port-Cap-TLV (143)  
Multi-Topology Aware Port Capability – sub-TLVs in next docs  
Have to straighten this out with TRILL folks

# Doc 2 - IEEE

- PortCap.BaseVLANID sub-TLV 5
- PortCap.SPBDigest sub-TLV 6
- MT-Capability-TLV (144)
- MT-Cap.SPB Instance sub-TLV 1
- MT-Cap.Opaque Algorithm sub-TLV 2
- MT-Cap.Service Id. sub-TLV 3
- MT-Cap.SPBV-MAC-ADDR sub-TLV 4
- EXT-IS.SPB Link Metric sub-TLV 5
- MT-EXT-IS.SPB LinkMetric sub-TLV 5

# Doc 3 - TRILL

• PortCap.VLAN and Flags	sub-TLV 1
• PortCap.Enabled-VLANs	sub-TLV 2
• PortCap.AppointedFwrdrs	sub-TLV 3
• PortCap.HBHOPT	sub-TLV 4
• CAPABILITY.Trill-Version	sub-TLV 5
• CAPABILITY.Nickname	sub-TLV 6
• CAPABILITY.Tree	sub-TLV 7
• CAPABILITY.Tree Id	sub-TLV 8
• CAPABILITY.TreeUseRootId	sub-TLV 9
• CAPABILITY.Int-VLANs	sub-TLV 10
• CAPABILITY.VLAN-Groups	sub-TLV 11
• CAPABILITY.ITEOPT	sub-TLV 12
• CAPABILITY.VMAP	sub-TLV 13
• TRILL-Neighbor TLV	(145)
• EXT-IS.MTU	sub-TLV 6
• GADDR-TLV	(142)
• GADDR-TLV.GMAC-ADDR	sub-TLV 1
• GADDR-TLV.GMAC-IP	sub-TLV 2
• GADDR-TLV.GMAC-IPV6	sub-TLV 3
• TRILL-HELLO	PDU
• MTU-PROBE	PDU
• MTU-ACK	PDU
• MGROUP-CSNP	PDU*
• MGRUP-PSNP	PDU*

NOTE: TRILL folks decided NOT to use the MGROUP related PDUs. Still discussion on MTU PDUs. May be removed.