P802.1Qca – D0.7 Editor’s Report

Comment Resolution for TG Ballot

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May 14, 2014
# Ballot Statistics

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Most Important Changes

› splitting the former subclause 45.1.1 ISIS-PCR VLAN configuration into two:
  – 45.1.2 ISIS-PCR VLAN configuration
  – 45.1.3 Explicit ECT Algorithms

› splitting the former subclause 45.1.2 Use of VIDs for static explicit trees into two:
  – 45.1.1 Tree structures
  – 45.1.4 Use of VIDs for static explicit trees

› number of further updates in Clause 45

› updates in Clause 12
Managed Objects – 1

› SPB System managed object (12.25.1)
  – It is in fact the L2 IS-IS System MO, and a bridge that supports Qca is a L2 IS-IS System
› SPB MTID Static managed object (12.25.2)
› SPB Topology Instance Dynamic managed object (12.25.3) (automatically created as a consequence of the creation of the SPB MTID Static MO)
  – Qca also builds upon MT IS-IS, hence it is needed for Qca too
› SPB ECT Static Entry managed object (12.25.4)
› SPB ECT Dynamic Entry managed object (12.25.5) (created as a consequence of the creation of the SPB ECT Static Entry MO)
  – This is the most important MO for Qca as Qca defines new ECT Algorithms
› SPB Adjacency Static Entry managed object (12.25.6)
› SPB Adjacency Dynamic Entry managed object (12.25.7)
  – A Qca bridge is an IS-IS bridge, it needs to build up adjacencies
› SPBM BSI Static Entry managed object (12.25.8)
  – If a BSI is carried over an explicit tree in a PBBN, then it is needed in Qca too
Managed Objects – 2

› SPB Topology Node Table managed object (12.25.9)
  – automatically created as a consequence of the creation of the SPB MTID Static MO, so it is there in Qca

› SPB Topology ECT Table managed object (12.25.10)
  – automatically created as a consequence of the creation of the SPB MTID Static MO, so it is there in Qca

› SPB Topology Edge Table managed object (12.25.11)
  – automatically created as a consequence of the creation of the SPB MTID Static MO, so it is there in Qca

› SPBM Topology Service Table managed object (12.25.12)
  – automatically created as a consequence of the creation of the SPB MTID Static MO, so it is there in Qca
  – it is needed for explicit trees allocated to SPBM mode

› SPBV Topology Service Table managed object (12.25.13)
  – automatically created as a consequence of the creation of the SPB MTID Static MO, so it is there in Qca
  – it is needed for explicit trees allocated to SPBM mode
Items for Decision

› Topology sub-TLV Format
  − The main difference between the two formats:
    › Current format (Format A) is based on Circuit ID
    › Alternative proposal (Format B) is based on the order of Sys IDs

› Explicit ECT Algorithms
  − Six Explicit ECT Algorithms are specified by Qca D0.6 & D0.7?
  − Do we need them all?

› SPBM LFA Multicast (Comment #77 on D0.3)
  − The main difficulty is that local repair is not enough because the bridges that need to react to the failure are not aware of it.
Joint Meeting

› 1: Qcc – Qca interworking
› 31: Is interworking provided by IS-IS, ISIS-SPB, or ISIS-PCR?
› 12: Do we need the MDP ECT Algorithm?
› 6: remote & off-line PCEs
› 13: VID assignment to a learning VLAN in case of LTS
› 17: VIDs for LTS
IWK Meeting

- 3: enhanced ingress checking
- 5: SPBM BSI Static Entry managed object
- 39: learning VID and non-learning VID
- 9: Binding multiple VIDs in support of a VLAN under explicit path control
- 17, 23: VLAN tag vs. VID vs. Base VID
- 22, 29: what to do in case of illegal mixture of hop types?
- 36: MRT Root vs. STP Root
- 34, 35, 37, 38: MRT VID conveyed by SPVID field
- 27: indexing in Figure 45-7
Open Items

› Cautions restoration is needed for redundant trees
  – How to do that exactly?
  – Shall we use topology digest?

› LAG with conversation-sensitive frame collection and distribution (Comment #59 on D0.4)

› Annex Z items

› MIBs