DRAFT YANG 802.1ABcu

Introduction

— Draft model follows IEEE Std 802.1AB-2016

— Initial draft of ABcu is available

— YANG file available on Github

— Review of Sections and work to be done in the document

— Example Diagrams

Draft ABcu

— Draft 0.0: http://www.ieee802.org/1/files/private/cu-drafts/d0/802-1ABcu-d0-0.pdf

— YANG file: https://github.com/YangModels/yang/blob/master/standard/ieee/802.1/draft/ieee802-dot1ab-lldp.yang

— One major change is finding all places the MIBs are discussed, and ensure the management aspects of YANG can also be reflected.

— Maintaining alignment with .1Qcp and .1Qcx

— A review of the ABcu YANG for naming conventions and formatting following the guidance of .1Qcx is TBD

Draft ABcu Clauses

— Usual front matter: Clause 1 – 5

— Clause 6 Principles of Operations

    — changes to include YANG

— Clause 7 LLDPDU transmission, reception, and addressing

    — no changes expected

— Clause 8 LLDPDU and TLV formats

    — There are a number issues related to the reliance of the 802.1Q protocol being tightly coupled to SNMP. The material on OID and material in Clause 8.5.8.1, Clause 8.5.9.7, Clause 8.5.9.8, and Clause 8.6 need to support YANG.

Draft ABcu Clauses continued

— Clause 9 LLDP agent operation
  — There are a number of issues to be considered in this section related to the use of the term MIB and the reliance on SNMP terminology. A statement at the front of the document equating a MIB to a YANG Module may make editing easier, but will be confusing to the reader.
— Clause 10 LLDP management
  — Many changes to add YANG in addition to MIB for management
— Clause 11 LLDP MIB definitions
  — No changes
— Clause 12 LLDP YANG definitions
  — New Clause for YANG

Example Diagram

— Utilizing UML to help explain structure of the LLDP YANG