Mac Merge

YANGsters discussion
Introduction

• Purpose
  • Summary of Mac Merge Issue and Planning for way forward

• Executive Summary
  • IEEE 802.1 participants have discovered a potential gap in needed functionality to support configuration of frame preemption
Frame Preemption Support

- **IEEE 802.1Q-2018**
  - 12.30.1.4 preemptionActive object
    - TRUE if preemption is both supported by the MAC and currently active.
    - The object is read-only because it is a feature that requires support from IEEE 802.3 MAC

- **IEEE 802.3-2018**
  - 30.14 Management for MAC Merge Sublayer
  - 30.14.1 oMACMergeEntity managed object class
    - This subclause formally defines the behaviours for the oMACMergeEntity managed object class attributes.
  - 30.14.1.1 aMACMergeSupport
    - ATTRIBUTE
    - APPROPRIATE SYNTAX:
      - An ENUMERATED VALUE that has one of the following entries:
        - supported MAC Merge sublayer is supported on the device
        - not supported MAC Merge sublayer is not supported on the device
    - BEHAVIOUR DEFINED AS:
      - This attribute indicates (when accessed via a GET operation) whether the given

• **Issue**
  - The initial version of the IEEE 802.3 YANG project did not support the managed object from Clause 30.14 IEEE 802.3-2018
Discussion Topics / Questions

- Is subclass 30.14 (IEEE 802.3) needed to use the frame preemption feature being defined by IEEE 802.1Qcw?
- What are the options for starting work to remedy the situation if needed?

- IEEE 802.1 is interested in moving the project to support YANG this feature
- If IEEE 802.3 doesn’t want to start a project, can the work be done as an IEEE 802.1 YANG module that augments the IEEE 802.3 YANG?
- Does IEEE 802.3 have other YANG work that this could become a part of?
- Communication between IEEE 802.1 and IEEE 802.3 on this topic is a must