YANG model for 802.3 MAC Merge Sublayer

Patrick Loschmidt (TTTech Industrial)

Tudor Vinereanu (Analog Devices)

Irina Patru (NXP)

Ionel Ghita (Keysight/Ixia)

Ganesh Venkatesan (Intel)

Marina Gutiérrez (L-Acoustics)

Context

MAC Merge sublayer (Clause 99 of 802.3) provides support for Frame Preemption as defined in 802.1Q.

- Currently there is no standard YANG model for it.
- (P802.1Qcw defines the YANG model just for Frame Preemption.)

This contribution includes a first version of the MAC Merge YANG model.

The goal is to have it included in the revision of 802.3.2

NOTE: This work was originally developed by the engineering team in TTTech Industrial. The original contribution was modified to conform to the style used in IEEE802.

MAC Merge sublayer YANG model

```
augment /if:interfaces/if:interface/ieee802-eth-if:ethernet:
+--rw mac-merge {mac-merge}?
   +--rw admin-control
      +--rw merge-enable-tx?
                                           enumeration
      +--rw verify-disable-tx?
                                           enumeration
      +--rw verify-time?
                                           uint16
      +--rw frag-size?
                                           uint16
   +--ro admin-status
      +--ro merge-support?
                                           enumeration
      +--ro verify-status?
                                           enumeration
      +--ro status-tx?
                                           enumeration
   +--ro statistics
      +--ro assembly-error-count?
                                           yang:counter64
      +--ro smd-error-count?
                                           yang:counter64
      +--ro assembly-ok-count?
                                           yang:counter64
      +--ro fragment-count-rx?
                                           yang:counter64
      +--ro fragment-count-tx?
                                           yang:counter64
      +--ro hold-count?
                                           yang:counter64
```

- Augments ieee802ethernet-interface
- Contains managed objects defined in Clause 30.14 of 802.3

YANG FILE HERE \rightarrow \downarrow