

# Towards IEEE 802.3av D0.9

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# Current Status

- Draft 0.8 of Clause 92 is ready:
  - “Extensions of the Reconciliation Sublayer (RS) and Physical Coding Sublayer (PCS) / Physical Media Attachment (PMA) for 10GBASE-R for multipoint links and forward error correction”
- Clause 91 will be introduced in Draft 0.9
  - “Physical Medium Dependent (PMD) sublayer and medium, type 10GBASE-PR10, 10GBASE-PR20 and 10GBASE-PR30 (10 Gbit/s long wavelength passive optical networks)”

# Migration towards D0.9 [1]

- Changes to incorporate – [motions from San Francisco 07 2007 meeting](#):
  - “There shall be a Broadcast MAC instance for 10G distinct from the 1G Broadcast MAC instance.” – motion #3
    - Affects: Clause 64, Clause 92
  - “Idle Deletion State machine should align /S/ character of the first frame in the burst to the byte-0 position as shown in FSM1 on slide 7 in 3av\_0707\_kramer\_1.pdf.” – motion #9
    - Affects: Clause 92

# Migration towards D0.9 [2]

- Changes to incorporate – [motions from San Francisco 07 2007 meeting](#):
  - “Adopt as a baseline proposal the idle insertion mechanism set forth in 3av\_0707\_lynskey\_2.pdf.” – motion #10
    - Affects: Clause 92
  - “10Gbps upstream signal shall be centered at 1270 nm for all power budget classes.” – motion #12
    - Affects: Clause 91

# Migration towards D0.9 [3]

- Changes to incorporate – [motions from San Francisco 07 2007 meeting](#):
  - “Each broadcast MAC instance shall be associated with an unique LLID. The 10G broadcast channel shall be associated with LLID 0x7FFE. The 1G broadcast channel shall be associated with LLID 0x7FFF. The ONU transmits REGISTER\_REQ with an LLID according to its upstream rate. A 10G/1G ONU receives broadcasts on LLID 0x7FFE and REGISTER\_REQ to 0x7FFF.” – motion #22
    - Affects: Clause 64, Clause 92

# Migration towards D0.9 [4]

- Changes to incorporate – [motions from Geneva 05 2007 meeting](#):
  - “10 Gbps upstream signal to have a pass band of 20 nm” – motion #3
    - Affects: Clause 91
  - “802.3av shall not support a physical XAUI interface between PHY and MAC in the ONU.”
    - motion #5
      - Affects: Clause 92

# Migration towards D0.9 [5]

- Changes to incorporate – [motions from Geneva 05 2007 meeting](#):
  - “The FEC algorithm shall accept as its input Nx65bit payloads (the second bit of the sync header plus 64 bits of data) pre-pended with padding consisting of zeros to bring the input codeword to the required size; notwithstanding, both bits of the sync header shall be transmitted, while the padding shall not be transmitted, as illustrated in 3av\_0705\_effenger\_4.pdf.” – motion #6
    - Affects: Clause 92

# Migration towards D0.9 [6]

- Changes to incorporate – [motions from Geneva 05 2007 meeting](#):
  - “To accept as a baseline for FEC framing the presentations 3av\_0701\_effenberger1\_1.pdf, 3av\_0703\_kramer\_1.pdf, and 3av\_0705\_lynskey\_1.pdf.” – motion #7
    - Affects: Clause 92
- Changes to incorporate – [motions from Orlando 03 2007 meeting](#):
  - “10GEAPON shall accommodate FEC’s parity bandwidth by reducing the MAC’s effective data rate (sub-rating).” – motion #3
    - Affects: Clause 92



# Migration towards D0.9 [7]

- Changes to incorporate – [motions from Orlando 03 2007 meeting](#):
  - “To accept the scheme outlined in slides 3-7 in 3av\_0703\_mandin\_2.pdf as the baseline scheme for upstream FEC framing and synchronization.” – motion #4
    - Affects: Clause 92, Clause 64 (variable definitions)
  - “To accept as a baseline scheme the FEC codeword structure depicted in the illustration on slide 5 in 3av\_0703\_mandin\_2.pdf for the downstream (so that the FEC codeword structures on the upstream and downstream are identical).” – motion #5
    - Affects: Clause 92

# Migration towards D0.9 [8]

- Changes to incorporate – [motions from Orlando 03 2007 meeting](#):
  - “For the 10GEPON upstream, the TDMA at 1310nm coexistence method is conditionally selected as baseline, unless technically and economically feasible link budgets cannot be found for all cases.” – motion #7
    - Affects: Clause 91

# Motion #3

802.3av Task Force authorizes the Editors to create Draft version **0.9** of Clauses **64**, **91** and **92**. The said Clauses shall incorporate all relevant baseline proposals as listed in **3av\_0709\_hajduczenia\_2.pdf**.

Moved by: Duane Remein

Seconded by: Marek Hajduczenia

\_37\_ Yes

\_0\_ No

\_0\_ Abstain

Total head count: \_45\_ (technical  $\geq$  75%)

Motion Passes

# Motion #4

802.3av Task Force allows for allocation of 20-minute time slot on Thursday for the overview of D0.9 document structure and contents.

Moved by: Duane Remein

Seconded by: Marek Hajduczenia

Total head count: 45 (procedural,  $\geq 50\%$ )

Motion approved by voice without opposition