

# FEC Framing and Synchronization Adhoc - Status Report

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# Overview

- Purpose: Create baseline proposal(s) based on harmonization of individual proposals for the format of FEC codewords and (upstream/downstream) receiver synchronization
  - Output will be “slideware” which is to be the input for the draft spec
- Thus far: focus of work has been mostly on upstream
- Status: Agreement on the basic scheme for upstream burst-mode FEC framing and OLT receiver synchronization with a couple of open issues (see technical presentation).

# Telecons

- 1) Feb 7
  - a) Reviewed [FEC\\_alignment\\_v02.pdf](#) (Kramer)
  - b) Notes at [http://www.ieee802.org/3/10GEPON\\_study/email/msg00396.html](http://www.ieee802.org/3/10GEPON_study/email/msg00396.html)
  
- 2) Feb 12
  - a) Reviewed [upstream\\_021207.pdf](#) (Mandin)
  - b) Discussed commonalities / differences vis-a-vis [FEC\\_alignment\\_v02.pdf](#)
  - c) Notes at [http://www.ieee802.org/3/10GEPON\\_study/email/msg00430.html](http://www.ieee802.org/3/10GEPON_study/email/msg00430.html)
  
- 3) Feb 27
  - a) Reviewed [UpstreamMandin\\_020726.pdf](#)
  - b) Discussed the issue of 32 bit vs. 64 bit alignment
  - c) Notes to be posted to reflector

# Telecon Attendees

The following participated in one or more of the telecons:

Frank Chang – Vitesse  
Fumio Daido – Sumitomo  
Feng Dongning – Huawei  
Frank Effenberger – Huawei  
Brian Holden – PMC-Sierra  
Glen Kramer – Teknovus  
Raymond Leung - Huawei  
Eric Lynskey – Teknovus  
Jeff Mandin – PMC-Sierra  
Shoichiro Seno – Mitsubishi

# Next Steps

1. Formalize the current consensus on the general approach for upstream framing/sync
2. Resolve the outstanding upstream issues ie.
  - a) What are triggers for turning laser on/off? (observe XGMII code? or infer from 66b hdr?)
  - b) Align the burst to start at the beginning of 66b block *and* the beginning of a FEC codeword? or just the beginning of a FEC codeword?
3. Move on to the downstream proposals

Thank You