

# PHY Baseline Proposal Ad Hoc Report

Contribution to IEEE 802.3: 40GBASE-T Task Force

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# Summary

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- Three telephonic meetings held
  - 3 April 2014: 1 contribution -
    - [chalupsky\\_3bqpah\\_01\\_april3-14.pdf](#) on delay constraint considerations
  - 24 April 2014: 1 contribution
    - [langner\\_3bqah\\_01\\_0414.pdf](#) on coding the uncoded bits
  - 8 May 2014: 2 contributions
    - Lo\_3bq\_01\_0514.pdf on coding the uncoded bits
    - Wu\_3bq\_01\_0514.pdf on a delay constraint proposal
- Progress made on understanding delay constraints and proposals for coding the uncoded bits
- Result: Proposal contributions to this Interim meeting

# Path to Baseline – Items In Process or Done

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- **Selected Strawman - DONE**
  - based on 4X Speed Clause 55
- **Simplified PBO – PARTIALLY DONE**
  - Noise Measurements Presented
  - 2 or 3 steps, need to resolve 12dB step
- **Coding Uncoded Bits – IN PROGRESS**
  - Proposals at this meeting
- **Delay Constraints – IN PROGRESS**
  - Proposals at this meeting

# Path to Baseline – TO DO

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- Clause 55 deviations: no proposals = no change
  - Add THP update? – TBD (no contributions)
  - Simplifications to startup
    - Minor improvement to startup time requested
  - Any new management register issues (PMA speed select, autoneg, test modes)
- Determine & finalize MDI needs & channel requirements (needs PHY defined first)
- PCS/MAC interface mapping to 40G, per [barrass\\_3bq\\_01\\_0713.pdf](#)

# Next Steps

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- Build consensus & resolve studied issues
  - Delay constraints & Uncoded bits
- Solicit Contributions on improvements, OR CONTRIBUTIONS SAYING NONE ARE NEEDED
  - Startup Timing
  - THP backchannel
  - Changes to management, autoneg, and test modes
- Consider impacts on higher layers, & alternatives
  - Re-study barrass\_3bq\_01\_0713
- Next ad hoc meeting: Thursday May 29, 10AM PST
  - General time slot is 10AM Thursdays, due to conflicts