



Single Twisted Pair Auto-Negotiation Update

IEEE 802.3 1TCPE Study Group - July 2014

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Auto-negotiations adopted as 1000BASE-T1 objective

- ▶ Voted in during 802.3bp task force meeting in May 2014
- ▶ Vote occurred after close of 1TPCE study group meeting

What has happened so far

- ▶ **March 2014 - Details of single pair auto-negotiations presented**
 - Lo_3bp_03_0314.pdf
 - Lo_3bp_04_0314.pdf
- ▶ **May 2014 – Improvements on above**
 - Thaler_01_0514.pdf
- ▶ **May 2014 – Added auto-negotiation to 1000BASE-T1 objectives**
 - Lo_Thaler_Tazebay_01_0514.pdf
- ▶ **June 2014 – Offline discussions**
- ▶ **July 2014 – Improvements on above**
 - Lo_02_0714.pdf

Should be in place for 1TPCE to use

- ▶ **Commitment from several individuals working in 802.3bp task force to solidify auto-negotiation proposal before Nov 2014 plenary meeting**
 - Individuals from Marvell and Broadcom will contribute to the effort
 - Everyone is welcome to join the effort

- ▶ **Good starting point exists for consensus building**
 - Base state machines – Lo_3bp_04_0314.pdf
 - Improvements – Thaler_3bp_01_0514.pdf
 - Improvements – Lo_3bp_02_0714.pdf

Recommendation

- ▶ **Change the wording of 1TPCE auto-negotiation objective to be more specific and concrete**
- ▶ **Current wording:**
 - **The resulting standard will not preclude single pair auto-negotiation**
- ▶ **Proposed wording:**
 - **Supports single twisted pair auto-negotiation as defined in 802.3bp**

THANK YOU