Open TBDs in D1.3

Kent Lusted, Synopsys, IEEE P802.3dj Task Force Electrical Track Chair
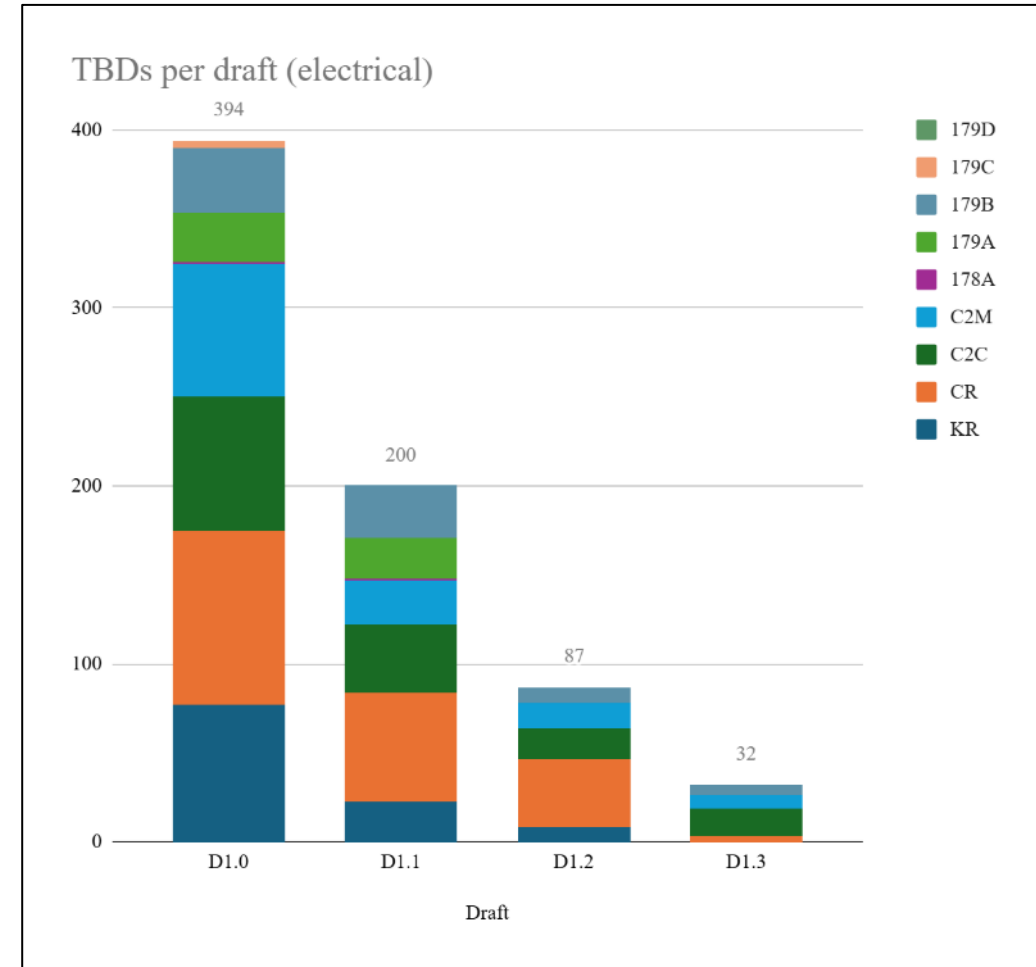
Matt Brown, Alphawave Semi, IEEE P802.3dj Editor-in-Chief

Progress Update

- We are in **Task Force** review. The entire document was in scope for D1.3
  - Reminder: Scope opens again at the start of Working Group ballot and again at the start of IEEE SA ballot

- Our Goal right now: Technically complete document coming out of the March 2025 Plenary to get to Working Group ballot in a prudent, expedient manner
  - The document "must be complete with no open technical issues" (no TBDs)

- Resolving *all TBDs* in this review cycle will let us see what issues remain and enable subsequent analysis/discussion to close them
  - May identify additional specification work items to bring forward during WG ballot

Status

- In D1.3, there are 73 TBDs
  - Electrical: 32
  - Logic and optics: 41

- Each TBD has at least one comment submitted against it

- Must close all D1.3 comments by the end of the IEEE 802.3 January 2025 interim meeting
  - Time is limited

Courtesy of Adee Ran

Comment Resolution Approach (Unchanged)

- Prioritization of comment closure (highest to lowest):
  - Close TBDs
    - Are there values or remedies that have sufficient consensus to use as a starting point? (Adopt now and refine in future drafts and ballots)
  - Address known gaps and major errors in the specification with solutions
  - Changes to existing values
    - Strongly supported consensus presentations take priority
    - An acceptable justification for rejection is "The CRG cannot come to a consensus to make changes necessary to address the comment"
      - https://standards.ieee.org/wp-content/uploads/import/governance/revcom/guidelines.pdf

D1.3 TBD Topic Areas

- 73: AN timer
- 116/169/186: Sub-layer and PMA delay limits
- 179: R_peak
- 180/181/183: TDECQ taps, RX ITT
- 185: LR1 TX
- 186: bit errors
- 174A: Error Ratio Allocation
- 179B: ILD, ILdd, ICN, etc.
- 176C/176D: SCMR, SNR_ISI, TX and RX ERL, RLcd, ILdd parameter values
- 185A: ENOB, oversampling ratio, etc.

There are comments to address all of these TBDs but some require contributions and/or input.

Summary

- Must have a technically complete document coming out of the March 2025 Plenary
- Replacing TBDs with values is the highest priority for D1.3 comment resolution
  - Refine in future drafts and ballots
- TBD topic areas; some need proposals and/or need inputs
  - *Between now and the start of the January interim:*
    - Pick your favorite topic area or two or three or…
    - Think about values to use in place of the TBDs.
    - Reach out to other participants to discuss and build consensus
    - Contribute a consensus presentation with values