IEEE 802.3ap
Signaling Comparison
Spreadsheet Proposal

IEEE 802.3ap Task Force

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**Support spreadsheet, but for v3.2, data pattern and power metrics are inadequately addressed

Summary

- Signaling ad hoc discussions indicated that a signaling comparison spreadsheet would be advantageous
- We benefits from transparency in our decision making
  - Full disclosure – How did we establish our final decision?
  - Repeatability – would others arrive at the same decision with the same basic data?
- Discussed metrics for a signaling comparison spreadsheet
  - Basic signaling properties for comparison
  - BER is the essential performance metric
  - Voltage and timing margin at specific BER important
  - NEXT/FEXT & noise effects
    - Random & deterministic properties are critical
  - Power and complexity
- Spreadsheet draft distributed for comment on reflector
  - This is not a closed document, a TF-based rev'n process is needed
  - Basic metrics & format should be agreed soon for max. benefit
  - Current version is v3.2