# IEEE 802.3ap Signaling Ad Hoc Report Out 

I EEE 802.3ap Task Force Mar'05<br>Michael Altmann

## Summary

- Signaling ad hoc work item review
- Established August’04
- To work toward a simulation and evaluation model for 10Gb serial BP signaling solutions
- Work I tems for ad hoc to address
- Channel elements for simulation
- Channel ad hoc defines link between TP1 and TP4
- Define component edge to TP1, TP4 to component edge
- Incorporation of channel loss, reflections, NEXT \& FEXT
- Solution Comparison Metrics
- Power consumption
- BER and Reach performance
- Complexity \& relative cost
- Robustness
- Treatment \& modeling of aggressors
- NEXT, FEXT
- Noise


## Conf Calls

- The Signaling ad hoc held 1 conference call
- Attendance 12
- Conf Call Overview
- 4 Feb'05
- Key discussions were on the TP4-5 link and package model inclusion for simulations
- Joe (Abler) presented the effects of both the inductive and capacitive pkg models as presented by Rich Mellitz in mellitz_m1_0105.pdf.
- General preference for the capacitive model as the cap was viewed as potentially containing part of the ESD and driver cap.
- There was a general lack of enthusiasm on the use of a TP4-5 model. A straw poll on the topic decided against using a TP45 model for simulation.


## Straw Polls

- Some straw polls were held to clarify the preferences of the ad hoc group.


## 4 Feb'05 Conf Call

\#1: For our sim in March, should our sim use a package model?
passed by acclamation: ( 12 people on the call)
\#2: From Joe's presentation, which package model should we use?
Cap-like: 11 I nductor-like: $0 \quad$ Both: 0

Abstain: 1
\#3: Should we use a model for TP4-Tp5 for the purpose of presenting results for the March Plenary? As noted by Joe Abler, this includes cascading with all the crosstalk channels (up to 8).
Yes: 4 No: 7 Abstain: 1

