

Generating the 10GBASE-T drafts

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- Primary task is to get enough consensus that we can generate a “good” draft D1.0 coming out of the July 802 Plenary meeting..
- Motivated by goal set by chair (B. Booth)
 - “...generate draft D1.0 coming out of the July 802 Plenary meeting...
 - ...we have 8 7 2 months in which to develop consensus on the baseline for the first draft. ”
 - Draft 0.9 coming out of the May meeting
- The key is developing consensus on a core proposal but...
 - This covers more than PAM, coding and choice of cable
 - The “creating a draft” part of the work is substantial

What's needed in a proposal

- What's needed in a proposal so we can write the draft?
- A first cut was distributed via the reflector and is available on line at: <http://www.ieee802.org/3/an/public/material/parameterlist.xls>

Item #	Description	Current active proposals	approved
	PCS		
1	Symbol rate		
2	Modulation		
3	Frame structure		
4	Transmit encoding for FEC		
5	Transmitter bit to symbol mapping		
6	Transmit processing		
7	Transmit latency through PCS		
	PMA		
8	Transmit voltage specification		
9	Transmit pulse shaping		
10	Transmit master and slave jitter specifications		
11	Transmit linearity specifications		
12	Maximum allowable transmit distortion		
13	Transmit noise floor		
14	Transmit latency through PMA		
	Startup protocol		
15	state diagram for training		
16	Coefficient exchange if required		
17	Coefficient initialization if required		
18	Mode selection method if phy operates in multiple modes		
	Receiver performance requirement		
19	BER or FER over specified channel models	10 ⁻¹² for BER, FER??	
20	Receiver latency requirement		

Issues with parameter list?

- It is not complete but is a starting point
- Can we address issues like auto-negotiation, start-up at this point?
- More??

Selecting the parameters

- Consensus on specific issues is a great way to go
- Where there is no consensus, what do we need to compare proposals and select the right one?
- A first cut spreadsheet was distributed via the reflector and is available on line at:
<http://www.ieee802.org/3/an/public/material/proposaldetails.xls>
- What are the issues with this spreadsheet?
- More..