Meeting of IEEE 802.3af 11/2/02 Kauai, HI

The meeting opened at 8:30AM with a welcome from Steve Carlson, TF Chair.

We are here to resolve 9 editorial comments on the D3.3.

Geoff Thompson did presentation to the IEEE1394 marketing alliance, which is trying to go to cat5. Explained af standard to them. Their pair ordering is different than ours and already defined @30V.

D4.0 is essentially the same as D3.3, and if there are any outstanding technical issues that we have, we should try to resolve them now. These will not go into D4, but would be nice to have our ducks in a row.

Other business:
Plenary meeting survey is online. HTML form important to fill that out to bring the meeting planners into reality mode.

Today:

Presentation of E resolutions
Discuss issues going forward
Prepare Sponsor Ballot

Tomorrow
Discussion continues
Thursday
Prepare for closing plenary

Next meeting at Hotel Vancouver, Jan 7-9th 2003
Co-locate with 802.3ah, 802.1
Registration opens Dec 3rd.

March Plenary DFW Hyatt, Irvine, TX March 10 – 14, 2003
802.3 may locate to a different hotel

We are here, and ready to forward to sponsor ballot.
If we don't get overwhelmed with comments from the group in January, we could be finished by May.

See the D3.3 Comment Database for full resolutions of the 9 comments.

Comment 1: it is not clear what basic package is referred to. Change to:" For managed midspans, the basic package for PSE's is mandatory"

Comment 1: The definition of the mandatory package is not defined. TYPO? Reject.

Comment 2: The basic package is too basic. Out of scope. Reject.

Comment 3. acPSEAdminControl should read acPDAdminControl. This is a typo but to fix it could cause a recirculation to due to technical change. Reject add editor's note that this is an obvious error to be fixed in sponsor ballot.

Comment 4: OID's are missing. Reject

Comment 5: PI should be between DUT and Center tapped inductor. Accept

Comment 6: missing capacitor, Accept.

Comment 7: PIC got out of sync with the text. "for a 10MB/s PHY blah blah blah" Accept.

Comment 8: Missing end point typo. Accept 1 MHz<=f<20MHz, 20 MHz<=f<=100MHz.

Comment 9 802.3af rev 2002 Accepted.

Action Items:
1. fix the typo (acPSEAdminControlAction should read acPDAdminControl) at sponsor ballot.
2. Talk to the powers that be later in the week about isolation requirements

Presentations

"The Case for Low Wattage PSE's" by Mike McCormick.:

All access points, Phones, Cameras, are below the 7watt threshold.
Some sites will not use large port PSEs
15.4 W PSEs will have 50% of their power wasted
Suggest that we have mandatory labeling. Dispensation only for single port PSEs. Mandatory classification.
Chris suggested to make it only for midspan.
Suggested mandatory label on the PSE
Dave Dwelley suggested an indicator on the PD.
Sterling Suggested mandatory power class label on the PD.

Mike McCormick Presentation on PD isolation

Current isolation is onerous requirement
UL and CSA and real safety engineers only care about isolation regarding users.
1500V isolation between the MSC and the MAU/MII/GMII inside a double insulated appliance is a waste.
Wasted capacity is wasted money.

Solution **do the right thing** "when implementing a power via the MDI PD (clause 33) 1500V isolation must be maintained between the powered MDI and all other user accessible conductors"
Suggested the politically correct avenue for this change, would be as a maintenance activity for 802.3.
David Law says to do it as a release of 802.3 specs in clause 33 rather than changing the relevant previous clauses. Talk to the powers that be later in the week.

Line 38 Note on figure 33-7 and 33-8
 Insert: Diode D1 *is an example of a device that* is used to ensure a non-valid….

NOTES for table 33-2 settling time for the PSE (Tsettle) is a non-testable parameter.
Maybe change note 5 to "the PSE should allow for adequate setting time before sampling the voltage. Adequate settling time may be approximated by this equation:…."

Notes for table 33-5
Note 4
c) 1) Ipeak = 0.4 A minimum for 50 ms and 5% duty cycle minimum.
Does this mean only one port at a time, or all ports at the same time?

P. 48 in the draft. 33.2.7.2 and 33.2.7.3 If you have a PSE that classes and a PSE that does not class, they will behave differently in the field. Add the last little chunk in .3 to .2.

Table 33-12

The current for class 4 condition 20 you're going to end up with 14V instead of 15V. (we did not account for 20 ohms round trip) Propose to change to 14V in the table across the board.

Page 63 line 51 Powered PD's that no longer require power shall remove both components of … propose to change to "shall provide an invalid MPS signature" or something.

To emphasize that that the modulation applies to the DC current and not to the PD parameters.

Table 33-7 instead of 42.4V, we should delete this requirement, or change it to something reasonable, like less than 10V. the 42.4 is defined by maximum SELV. We also have to define what is Vopen for the definition. Yair to fix.

Table 33-6 for clarity we should convert the numbers to power numbers and convert the note to current numbers. Dave Dwelley to provide comment.

Table 4b the resistance value, was changed to 1980 being 2 meg +/- 1%   Leave like it is.

Table 33-6 Item 4 the 350 mA current limit defined by cable requirement. Not power limit. 450 is current change note 4 only to power number.

Table 33-15 note b the current should be measured at the input port of the PD, the 10 mA is intended to be driven by the power supply and not allowed to drop the pd is a black box. It can only draw less than 10 mA for less than ….. add text that says at the PI. Dave Dwelley to implement.

Yair will make comments to the reflector that he intends for the sponsor ballot.

We are adjourned at 12:13 pm.

Thursday, Nov 19th
Meeting begun at 8:30 am.

Corrected email address on sponsor ballot listing.

Motion 1
Approved minutes of New Orleans. Unanimous.

Motion: 2
Move that the resolutions to all comments from the D3.3 comment resolution database be incorporated into D4.0, and to charter the Editor to produce D4.0
M Hank S: Yair
Y 17 N 0 A 0 802.3 Voters.

Motion 3
Move that D4.0 be sent to the 802.3 WG for forwarding to Sponsor Ballot.
M Mike McCormack S Moty Goldis
Y 17 N 0 A 0 802.3 voters

Motion 4
Report on liason letter from IEC 11801 requesting information on our expected application physical interface interface parameters for …

Began draft of a response.

Motion 4

Move that the 802.3af TF charter the Chair to respond to the ISO?IEC JTC !/SC 25 WG 3 liaison letter request on infrastructure requirements for wireless access points and other devices requiring remote power, using the comments from the group, as captured in "SC25_WG3.doc"

M Roger Karam S Chris DiMinico

Passed by acclamation.

Meeting adjourned by acclamation.

Sterling Vaden, Secretary