

(DRAFT) MEETING 3 MINUTES:

Call to Order UPAMD Conformity/Certification meeting -- Bob Noseworthy 7am PT 21 Sept 2011

I. Introductions/Attendance

Alex Schneider, Bob Davis, Bob Noseworthy,

II. Approval of previous Meeting Notes

Not done

III. Approval of Agenda

Moved- Bob D. Seconded -Alex

Introductions/Attendance

Approval of previous Conformity Subgroup Meeting Notes (Null)

Approval of 08/24/2011 Conformity Subgroup Agenda

Patent Slides reviewed

Technical Review/Updates

Administrative Review/Updates

New business?

IV. IEEE Call for Patents.

<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf>

V. Technical Review/Updates

Reviewed previous discussions of Conformity group with Alex.

- 1 Past Tech topics
- 1 Use of a Logical Channel 3 Test & Qualification possible uses
- 1 Cable tests – mechanical measurements, break strength, disconnect tests
 - 1 Various angles
 - 1 Connector/plug disconnect strength – when not locked- pops off easy with a ‘trip’ test, when locked, then it should remain firmly seated under high force.
 - 1 Drop shock test
 - 1 May require connector and plug manufacturers to validate design requirements (breaking strength, maximum pull before breaking when locked, etc) but these requirements *might* not be checked when in a final product
- 1 Accuracy needs (tolerances below are placeholders only! Power committee should decide these)
 - 1 Default 21V
 - 1 Communications Power
 - 1 first power on the wire – must be 12V +/- 10% at 25mA +/- ??
 - 1 Recv dev will assume >20 <21.
 - 1 Supply range (PS – power sourcing device)
 - 1 Maintain proper voltage across supported current range
 - 1 Test C of PS (both PS with connector, and PS with fixed cable)
 - 1 Cable loss range (cable resistance 100mOhms +/- ?)
 - 1 Length Expected – 0.5m -> 10m
 - 1 Every non-fixed cable must support maximum wattage
 - 1 For non-fixed cable – measure R / C / L (even for fixed cable)
 - 1 Need separate C specs for cable only, and PS-fixed cable
 - 1 Cables fixed to a power supply only need support that power supplies maximum
 - 1 Tolerance of PD (powered device)
 - 1 PS is 21V out +/- 5% (check)

- 1 Must test both full load and open circuit conditions
 - 1 Open circuit should not be $>21\text{v}$ (+/- 5%?). Under full load: 20-21
 - 1 Should output voltage be limited to only 20-21 under any condition (tolerances)
 - 1 Absolute maximum is 23v – higher than this requires more expensive Caps
- 1 Scope reminder:
 - 1 Power groups subcommittee's task is to establish these bounds and test conditions
 - 1 Conformity group: provide feedback and oversight to the other technical subcommittees to ensure testability and coverage
 - 1 Conformity group also assists in the development of the administrative structure that ultimately provides the logo grant:
 - 1 What tests are required (subset of all conformance requirements, development of some interoperability use case scenarios)
 - 1 Will these tests be on the production line in any sense?
 - 1 Will there be audits of products in the field (likely for brand protection)
 - 1 Any special attention to test modes/etc that would benefit testing of devices on the manufacturing line
- 1 Goal reminders:
 - 1 Plug in and it should work
 - 1 Long working life
 - 1 Relative low cost

VI. Administrative Review/Updates

- o Not reviewed

VII. New Business.

Adjourned circa 7:45am PT

Future Meetings:

5pm Pacific, Wednesday, October 5