

MEETING NOTES UPAMD POWER SUBGROUP MEETING 9/9/2010 5PM PACIFIC:

Planned Agenda –

Call to Order UPAMD Power Subgroup meeting – Paul Panepinto

5pm Pacific 9 September 2010

- I. Introductions/Attendance
- II. Approval of Agenda
- III. IEEE Call for Patents. See <http://standards.ieee.org/board/pat/pat-slideset.ppt>
- IV. Discuss charter of Power Subgroup and process
- V. Review current set of goals for Power Subgroup
- VI. Add to or modify any of the goals ensuring there is no conflict with the goals of the general group
- VII. Begin discussing and documenting considerations related to each goal
- VIII. Choose regular meeting times.

Since only three people participated in this subgroup meeting, we decided to put in writing the charter of this subgroup and ask people to comment or approve.

Charter – to define the power range UPAMD power adapters and loads will support, including one or more voltages and current thresholds for any particular voltage, and any power-related requirements.

Process –

- Document the considerations related to each goal
- Develop criteria that support each goal
- Identify pros and cons for the criteria, keeping in mind the broader goals of the UPAMD as well.

Paul Panepinto will create and distribute a spreadsheet with a worksheet for each currently defined Power Subgroup Goal (developed from previous UPAMD meetings, listed below.) He will ask the group and subgroup to contribute criteria in the form specified below and to identify which goal each criterion should be placed under.

Meeting times – having not heard any objection, this subgroup meeting schedule will be other Thursday starting 9/9/2010 alternating meeting times between 5pm Pacific and 7am Pacific for the next meeting.

POWER GOALS AND QUESTIONS:

Power range >10W – 130W delivered power to device and is brand, model, and year agnostic.

Adapter<->Mobile Device communications required for higher power safety <0.7W Non-Sparking

Basic power delivery mechanism to support non-battery and battery powered devices

Device may be capable of being a source as well as a sink of power, or both (not a requirement, but an option)

Voltage and current levels – support more than one?

Should we assume setting voltage and current limits will be done in response to communication from the sink device?

What triggers the UPAMD power adapter to configure the output voltage and current?

Can voltage and current limits be changed once initially negotiated for a sink device?

Define behavior where there are unstable power sources for the UPAMD adapter

Power for communication wire(s) (if part of the spec)

Isolation (leakage) sufficient for medical applications (for now a goal, but previous posts have raised opposition to this as being a requirement for the UPAMD spec)

Smart interconnect:

- Higher power enabled through communications between devices

Regular non-battery and dead battery devices need starting power

Criterion Format – Each goal can be viewed as a class for which criteria can be grouped. Each criterion can be described using the following format.

1. Goal Name

1.1 Criterion Name

1.1.1 Required or Optional

Criterion Description: *Describes the criterion, its purpose and why it is important.*

Applies to: Lists any exceptions to applicable devices or power adapters.

Consideration For and Against:

- a) *List of pros for the criterion*
- b) *List of cons against the criterion*

References and Details: Any relevant reference material, standards or documents that should be considered for this criterion.

2. Goal Name

2.1 Criterion Name

2.1.1 Required or Optional

Criterion Description: *Describes the criterion, its purpose and why it is important.*

Applies to: Lists any exceptions to applicable devices or power adapters.

Consideration For and Against:

- c) *List of pros for the criterion*
- d) *List of cons against the criterion*

References and Details: Any relevant reference material, standards or documents that should be considered for this criterion.