

Universal Power Adapter for Mobile Device

Industry Connections Activity Initiation Document

Version: 0.4 Draft, July 03, 2012

[[Note: Any text surrounded by double square brackets [[]] should be replaced appropriately (and the brackets removed) in the final document, or may be deleted if so allowed. These instructions may be deleted.

The version number above, along with the date, may be used to distinguish successive updates of the document. The file name associated with the document should also be updated accordingly.

The status should indicate “Draft”, “For Member Approval”, “For BOG Approval”, or “Approved”, as appropriate.

The Name of New IC Activity and Version information provided above will automatically update the corresponding page headers and footers (upon printing or print preview).

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1. Background and Purpose

The Universal Power Adapter for Mobile Device (UPAMD) project was proposed as an industrial effort to help reduce eWaste generated by current practice of dumb wall adapter for many mobile devices. The working group efforts started from vendors working in mobile computing device space (laptops, notebooks, tablets) and entertainment systems as a way to lower the cost of the power adapter, provide a common power interface and establish the principle of re-use for multiple generations of devices. The UPAMD standard creates a common interconnect for power delivery system for mobile devices requiring greater than 10W and up to, but less than, 240W to portable and fixed devices. UPAMD power adapters are brand, model, and model year agnostic.

After the working group started in 2010, the importance and flexibility of intelligent communication between device and power adapter gained recognition by other industries and several other working groups are now starting to look at collaboration with UPAMD working group to define a more universal and wider usage model. The UPAMD adapter system may be usable in portable computing and entertainment systems, security, household and office equipment within the power range. Universality and reuse are among the primary driving factors. Communications may support the adaption of the powered device performance to the power available.

The industry connection program will help in several ways to promote UPAMD standard across many fields. By allowing cross-society and industries promotion, UPAMD many share the same standard to enable application beyond power adapter for mobile computing device to include, but not limit to automotive, aero space, hotel and hospitality usage or even stationary computing or POS (point of sales). The main goal of UPAMD standard to help reducing eWaste by allowing reuse of the power adapter, is shared by many industries for the new interests to become green and environmentally friendly.

The industry Connection program will help to bring UPAMD standard to different manufacturer groups and work to assure interoperability. It is necessary and important for this IC program to broaden the awareness and accelerate the adoption of UPAMD standard.

2. Charter and Scope

Within the IEEE Standards Association (IEEE-SA), the UPAMD Alliance activity will be overseen by the IEEE-SA Board of Governors (BOG). The charter of UPAMD Alliance focuses its activities as follows:

- Produce relevant material for external communication to target multiple interested parties to help them understand the goal and purpose of the standard.
- Arrange series of discussion/visit directly with power adapter vendors that will benefit from early adoption.
- Represent and present UPAMD standard in industrial event or trade shows to accelerate the recognition.
- Promote and UPAMD standard to help early adopter to see real advantage so that others will follow and adopt.
- Enable cross industry discussion venue to help adoption of UPAMD standard in fields other than mobile computing.
- Maintain special interest groups (SIG's) supporting UPAMD topics and help initial revisions, corrections, and amendments to the P1823/UPAMD Standard.

3. Potential Markets Served

The main benefits of this work are:

- Accelerate UPAMD standard adoption, which in turn help reduce overall eWaste.
- Facilitate discussion across different industry for UPAMD cross compatibility
- Allow other industries such as automotive or transportation to use UPAMD standard for their unique purposes.
- Help end users and business users understand the benefit of UPAMD standard compliant device and their impact to reduce eWaste. This will accelerate the acceptance of UPAMD supported device and benefit the early industrial adaptors.
- Enable UPAMD Alliance to create a widely accepted compatibility certificate program which generates recurring support revenue back to IEEE-SA.

- Provide industry feedback to the UPAMD development.

4. **Proposed Deliverables**

- Series of short form pamphlet explaining UPAMD standards to industrial partners.
- Ready made presentation material that can be used for trade show or event presentations.
- Documentation to help industrial partners to adopt and implement the UPAMD standard and reduce time to market.
- Documentation to help UPAMD device makers to understand certification and compliance requirement.
- Certification and testing process to license to external interested parties as test facility.

5. **Funding Requirements**

- Professional marketing service agency to manage event logistics and promotional effort
- Contract service for Testing and validation process development
- Testing service facility exam and evaluation
- Necessary travel and related expense

6. **Initial Members**

The initial members in [UPAMD Alliance] are the following:

Entity	Address	Contact
[[EntityName1]]	[[EntityAddress1]]	[[ContactName1]] [[EmailAddress1]] [[PhoneNumber1]]
[[EntityName2]]	[[EntityAddress2]]	[[ContactName2]] [[EmailAddress2]] [[PhoneNumber2]]
[[EntityName3]]	[[EntityAddress3]]	[[ContactName3]] [[EmailAddress3]] [[PhoneNumber3]]

Revision History:

Revision Number	Author/Editor	Date
[0.1 (Draft)]	[Leonard Tsai]	[Mar 20, 2012]
[0.2 (Draft Update)]	[Leonard Tsai]	[May 17, 2012]
[0.3 (Draft Update)]	[Leonard Tsai]	[June 25, 2012]
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