**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title |  | |
| Date Submitted | [20 July, 2011] | |
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| Re: | [802.15 WNG Meeting in San Francisco] | |
| Abstract | [IEEE 802.15 Steering Committee Minutes] | |
| Purpose | [Official minutes of the Working Group Session] | |
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**IEEE 802.15 Interim Meeting – Session #73**

**Hyatt Regency, San Francisco, CA**

**July 18- 21, 2011**

**Wednesday 20 July 2011**

**11:10** 802.15 WNG SC chaired by P Kinney brought to order noting that today’s meeting was four presentations:

1. PTC Radio and System Architecture by Jia-Ru Li, Lilee Systems
2. Overview of LED-ID by Yeong Min Jang
3. Issue and Challenges for LED-ID Technology by Yeong Min Jang
4. Cooperative Transmission for LED-ID Network by Jin Young Kim

**PTC Radio and System Architecture** by Jia-Ru Li, Lilee Systems (15-11-0530-00)

* Discussion:
  + Straw Poll 1 - Do you think SCWNG should invite various industry experts in railroad and others (e.g. sensor) to provide more information about requirements?
    - 13/1/15
  + Straw Poll 2: Assuming the results of Straw Poll #1 are affirmative, do you agree that the IEEE 802.15 WG should form an interest group to pursue this task?
    - 15/5/16
  + Comment that the experts from the first straw poll should present to the IG of from the second straw poll
  + Comment that this application fits well with 802.15 but maybe not within existing task groups
  + Question as to detailed requirements? Doesn’t currently exist in RF parameters, IG could translate to RF parameters
  + Question, since there are already global solutions, why look at IEEE for a NA only solution? NA railroad needs are distinct from other countries and areas.
  + Question as to how many pilots are currently active? 2 were described

**Overview of LED-ID** by Yeong Min Jang, Kookmin University (15-11-0501-01)

**Issue and Challenges for LED-ID Technology** by Yeong Min Jang (15-11-0503-01)

**Cooperative Transmission for LED-ID Network** by Yeong Min Jang (15-11-0504-01)

* Discussion (was held until all presentations were heard):
  + 15-11-501:slide 8-9 – more than a replacement for bar code system, isn’t this LED communications rather than ID. Reply: the application is identification
  + 15-11-501: slide 3 – describes two-way data communication, this is peer to peer communication Reply: if reader wants to receive data from a tag, the reader will first request data from the tag, then receive the data.
  + At lower MAC/PHY it is peer to peer
  + Work is happening in ECMA 397 which is short range LED for RFID, how is this different? Reply: 802.15.7 already describes an LED communication method. This proposal is for OFDM based receivers.
  + What are you expecting to accomplish in 802.15? Reply: no plans at the present other than introducing this concept.
  + Will you propose an IG? Reply: yes
  + What are the data rates? How are the channel conditions mapped to Eb/No? Reply: 1 Mb/s and assumption is that a direct path is guaranteed
  + Upload next three presentations soon? Reply: yes
  + What should WMG do: create an IG to develop LED-ID PHY/MAC as an extension of visible light communication.
  + Straw poll of those interested in participating in an LED-ID interest group: there were 5 interested
  + Guidance from WNG chair to presenters was to use the WNG for September’s interim session (Okinawa) for further presentations on this subject and to allow further discussions.

**12:23** Meeting adjourned