**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<IEEE802.15 SCMan and SCWNG minutes>** | |
| Date Submitted | [22 Jan 2014] | |
| Source | [] [] [Chicago, IL] | Voice: [+1.847.960.3715] Fax: [] E-mail: [pat.kinney@ieee.org] |
| Re: | [802.15 Main and WNG Meeting in Los Angeles] | |
| Abstract | [IEEE 802.15 Man and WNG Standing Committee Minutes] | |
| Purpose | [Official minutes of the Working Group Session] | |
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**IEEE 802.15 Plenary Meeting – Session #87**

**Hyatt Regency, Dallas, Texas, USA**

**November 10-14, 2013**

**SC Maintenance**

**Wednesday 22 January 2014**

**08:10** SC Maintenance called to order by Pat Kinney (Kinney Consulting)

* IEEE 802.15.4 revision
  + Rollup of 15.4-2011 with 4e, 4f, 4g, 4j, 4k by IEEE-SA is not complete
  + Significant discussion on the timing parameters of 802.15.4
    - Consensus is that the concept of timing including ACK, CSMA, etc is now broken
    - Agreement that the legacy timing parameters for legacy ACK were OK, i.e. ACK start is between 12 to 20 symbols
    - General consensus that the timing of 4g and 4k is probably broken, i.e. 1 ms w/o CCA
    - Agreement: ACKs with timing running from 12 to 20 symbols do not need to execute CCAs, but longer ACK delays do require CCAs
    - Agreement: ACK timing needs to consider CSMA timing, IFS timing, etc.
    - Action Items: White papers describing timing constraints of 15.4 and proposal of resolutions will be presented by J Gilb, C. Seibert, and Ben Rolfe
  + Discussion of issues with 15.4 security, e.g. frame counter over-run

**10:00** SC Maintenance meeting adjourned

**SC WNG meeting**

**Wednesday 22 January 2014**

**11:05** SC WNG called to order by WNG chair, Pat Kinney

Four presentations, three in AM2, and one PM1 using SC maintenance slot

1. Augmented Reality standards, use cases and requirements: How can 802.15 contribute? by Christine Perey (15-13-0746-02)
   1. J Ramasastry – M2M is already valuable R- it would be more valuable if presented to the user with context.
   2. Sensor synch – stds body or application? R- Node to hub or node synch
   3. How much information stored at the device vs. how much at the cloud? R- mostly local
   4. SG optical camera communication is part of AR
   5. What do you expect out of 802.15? Consider AR terminology and recognize its frameworks in new standards. Attend/liaisons with AR groups such as Chronos, etc.
   6. Request that C Perey come back to 802.15 periodically to refresh and update group on AR
2. LnL Communications: Device Pairing Technology for Generation Z by Byung-Jae Kwak (15-14-0013-00)
   1. Q-Instead of 4 antennas, current products only support two to save costs, how can this implementation be reconciled with the proposal?
   2. Comments on demonstration
      1. Purpose is to show a solution for discovery problem

**12:24** meeting adjourned