**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 | [14 Mar 2012] | |
| Source | [] [] [Chicago, IL] | Voice: [+1.847.960.3715] Fax: [] E-mail: [pat.kinney@ieee.org] |
| Re: | [802.15 WNG Meeting in Waikoloa] | |
| Abstract | [IEEE 802.15 WNG Steering Committee Minutes] | |
| Purpose | [Official minutes of the Working Group Session] | |
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**IEEE 802.15 Plenary Meeting – Session #77**

**Hilton Waikoloa Village, Waikoloa, Hawaii, USA**

**March 11-16, 2012**

**Wednesday 14 March 2012**

**11:14** 802.15 WNG SC chaired by P Kinney (Kinney Consulting) brought to order noting that today’s meeting included four presentations:

* Ultra low power (ULP) technologies that can be applied to wireless sensor networks (WSN)
* Presentation/discussion exploring joint work between 802.21 and 802.15
* Enhancement of IEEE 802.15.7 Specification for LBS (location-based service) Applications
* Overview and Applications of LED-ID System and Visible RFID System

**11:15** Towards Next Gen ULP Technologies (15-12-0139-02) by S Emami (Samsung)

* Comment: not convinced that the comparisons of power consumptions on slide 8 are generic enough
* Comment: power consumption figures for 802.15.4 (slides 6, 8) could have been more exhaustive, add additional bands for investigation
* Comment: a study group (for a PHY amendment to 802.15.4) should investigate Ultra Low Power technologies in 2.4 GHz and other global bands
* Comment: These numbers are for other PHYs for which the numbers could be lower, e.g. FSK
* Comment: In addition to bandwidth, capacity should also be investigated
* Comment: before a task group is formed the SG should include a system analysis including the PHY, MAC
* Question: Why is there a need for a data rate of 1 Mb/s in sensor networks? The SG would need to consider what should be the upper limit.

SCWNG chair asked the group for a show of hands of those supporting the formation of a study group or interested in participating in a study group to which there was a response of 34, there was one person opposed to the formation of such a study group at this time. The SCWNG chair then asked the group for a show of support for the formation of an interest group rather than a study group to which 6 responded.

**11:53** 802.21d Group Management Framework (21-12-0028-03-0000) by Yoshihiro Ohba and Toru Kambayashi (Toshiba), Antonio de la Oliva (UC3M), Stephen Chasko and Ruben Salazar (Landis+Gyr), Subir Das (ACS)

**12:11** Enhancement of IEEE 802.15.7 Specification for LBS Applications (15-12-0164-00) by Yeong Min Jang (Kookmin University)

* Comment: Location could be accomplished via an information element

**12:23** Overview and Applications of LED-ID System and Visible RFID System (15-12-0165-00) by Yeong Min Jang (Kookmin University)

* Security claims: how are they substantiated? While LED could be better than RF it cannot be considered to be guaranteed secure.
* Hazard to humans: is this statement an implication that RF is harmful to humans? Response: LEDs are less harmful Reply: disagree

SCWNG chair asked the group as to support in forming an interest group with the mission of investigating as to how this effort would coordinate with 802.15.7: with a response of 5 willing to participate. Yeong Min Jang volunteered to chair this interest group.

**12:41** Meeting adjourned