IEEE P802.15

**Wireless Personal Area Networks**

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| Project | Dependable Interest Group |
| Title | **Meeting Minutes for March 2013**  |
| Date Submitted | March 21, 2013 |
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| Re: | Meeting Minutes |
| Abstract |  |
| Purpose | Minutes of Dependable Interest Group sessions |
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**Thursday, March 21, 2013, 8:00**

Meeting was called to order by the chair.

The chair reviewed Ryuji Kohno presentation to WNG: 15-13-0192-01-0dep-review-and-amendment-of-ieee802-15-6-ban-to-focus-on-dependable-wireless-ban-of-things

Slide 29 Definition of dependability

For us, “Dependability in network” means to guarantee lowest performance enough high in a sense of highly reliable, safe, secure, fault tolerant, robust services in any predictable and even unpredictable worse environments.

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The whole set of MAC specifications are too large to be implemented in a simple device

Need to identify a subset of the MAC to implement a simple device.

More robustness and security against interference and jamming, and minimum delay for emergency use should be guaranteed.

1. Modify the access phase structure so that scheduled access and low latency highest priority access maximum delay can be guaranteed.
2. Enable hub to hub communication in 802.15.6 to enable coexistence.
3. Fix known errors
4. Change for m2m is a change of scope of 15.6

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• First, we should focus on amendment of 15.6 for high QoS BAN with new criteria and definition of dependability because medical use of BAN should be compliant for FDA regulation and safety guideline.

Need a definition of dependability from FDA.

A. and B. above may address part of this.

• Next, we can apply BAN for human body into car & building bodies for dependable sensing and controlling with the same high level of dependability as medicine for wider market.

OK for sensing, need more for controlling. Need definition of dependability for car & building as compared to medical.

• Timely applications are emergency rescue in disaster and public safety like 911 and 311 dependable ad-hoc network for rescue, triage and recovering.

B. helps in this area.

Add public safety unsecured hub to hub frames. Unsecured ping and ack. Need a solution to identifying a patient in emergency situations.

• More applications are Machine-to-Machine(M2M) links for feedback controlling in factory automation, smart grid and more

Need to identify requirements for these applications.

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Amendment of MAC and PHY considering joint optimization among cross and multiple layers technologies including network architecture for architecture, authentication and encryption dependability.

Need to identify requirements for the cross layer communications. Do we need direct path to PHY to and from higher layers?

Authentication and encryption can be considered for MAC and PHY layers, others are out of scope.

We will have 2 time slots in May.

The meeting was adjourned by the chair.