**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | 802.15 IG12 (LLC) Minutes for July 2015 Mtg. | |
| Date Submitted | [15 July, 2015] | |
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| Re: | [IG12 (LLC) meeting minutes.] | |
| Abstract | IG12 (LLC)) minutes from the Kona Mtg. | |
| Purpose | [IG12 (LLC)) meeting minutes.] | |
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**Minutes for IEEE 802.15 IG12 (LLC)**

**July Meeting**

**15 July, 2015**

**Chair – Pat Kinney**

**Vice Chair - Charlie Perkins**

**Wednesday AM1 (7/15)**

Chair called the meeting to order at 8:16 PM. Meeting in Kohala 1.

**Opening Report**

Recap previous discussion and the proposal in Vancouver for this meeting.

**Patent Policy and call for Essential Patents**

Chair called the group’s attention to the IEEE patent policy and made a call for notification of essential patents. There were no responses.

**Review of Agenda/Closing Report (DCN 15-15-0572-00-wng0)**

**Discussion of presentation LLC Proposal for 802.15.4 (DCN 15-15-0521-00-wng0)**

Will not touch 802.15.4

Deterministic versus Non-deterministic

Protocol Layering

Useful feature packaging

**Bob M**: 6lowpan can help with Ethertype issues

**Ben**: close relation with 802.15 WG will make allocation of identifiers much easier compared to attempts by external organization

**Pat**: Also helps identify blocking issues with 802.15 specifications

**Ben**: The philosophy of keeping the PHY simpler didn’t really work

**Kunal**: The LLC will enable decisions about what MAC functions should be used

**Pat**: LoRA, SIGFOX are long-range. Z-Wave is very simplistic, even non-unique 1-byte MAC addresses

**Kunal**: Question about dynamic channel hopping – is it in scope?

**Ben**: Some of these topics should perhaps be in a different scope. It could be a use doc. Configuration management – one way to do one thing instead of many ways to do it.

**Shusaku**: What is the relationship between LLC and 802.1? **Pat**: not much at all. Want to make them knowledgeable about this effort. **Bob M.**: Need to keep us away from ratholes

**Shusaku:** The 802.1 umbrella is very complicated. **Pat**: We need to re-use the good parts of 802.1. We want to emulate some of their functionality in the best way possible. But for them, sending a megabyte is nothing. For us it is a big deal. **Bob M**.: Differences are due to capacity. **Ben**: Also wireless has lower bit survival rate than 802.1 **Pat**: 802.11 has the bandwidth to overcome errors.

**Shusaku:** But still 802.1 has looked at many of these issues. **Pat**: consider DetNet. Right now 6tisch is working closely with DetNet. We won’t be able to emulate DetNet over the air. What about global synchronization?

**Charlie**: What about picking some areas for initial focus to learn how to do the LLC properly? **Ben**: But our areas might be different. **Pat**: That’s the purpose of making a Study Group.

**Pat**: Should participate on the mailing list, and call in to Bangkok if it’s too expensive.

**Bob**: IE can make up for not having a two-octet Ethertype. **Pat**: There are ways that we can handle this. **Kunal**: But for instance channel hopping may not be appropriate.

**Don**: The LLC could be misused to try to solve all of the world’s problems. **Pat**: The group has to focus on one way of doing things, discuss. The right way to identify the issues is in a Study Group. **Don**: Don’t you need some sort of buy-in? **Pat**: Yes, we need 50% approval.

**Pat**: We can do straw polls to see support for LLC for 802.15.4. **Bob M**: Could work with 802.3g. **Charlie**: What about 802.15.9 and 802.15.10? **Ben**: Those are services that the LLC could use. **Bob H**.: LLC could use other IEEE 802.15 standards as appropriate.

**Straw poll for SG formation**

*Supporting the formation of a SG to develop the PAR and CSD for an LLC for IEEE 802.15.4 which may include the use of other IEEE 802.15 standards as appropriate*

Show of hands: **FOR**: 9 **AGAINST**: 0 **ABSTAIN**: 4 **Straw Poll carries**.

**Other business and discussion**

**Don**: What about 802.1x? It’s not IP. LLC can do a lot more than just IP.

**Charlie**: Part of the SG process ought to compare the work attempted in other SGs

**Motion to adjourn: Ben Second: Kunal**

The Task Group went into recess at 9:47 AM.