**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) | |
| Title | **<IG 6tisch Minutes>** | |
| Date Submitted | [17 Sept 2015] | |
| Source | [Pat Kinney] [<Kinney Consulting LLC>] [address] | Voice: [ ] Fax: [ ] E-mail: [ ] |
| Re: | [Interest Group 6tisch Plenary Meeting in Bangkok] | |
| Abstract | [Interest Group 6tisch Minutes.] | |
| Purpose | [Official minutes of the Task Group Session | |
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**IEEE 802.15 Interim Meeting – Session #98**

**Centara Plaza, Bangkok**

**Sept 13-17, 2015**

Tuesday, 14 July 2015, 10:30 (AM2) 2

# Tuesday, 14 July 2015, 10:30 (AM2)

**10:30** IG 6tisch chair, Pat Kinney, called meeting to order.

Chair presented opening report 15-15-0704-00-ig6t:

Chair displayed the IEEE-SA slides #1 through #4 of the IEEE patent policy.

Chair asked if anyone in the meeting was personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance? There were no responses.

**Agenda for Bangkok**

* + Chair presented the objectives are to review issues such as:
  + Status of IETF 6TiSCH
  + 6tisch issues discussion
    - Secure Join Process – The chair presented the following excerpts of emails on this subject
      * messages exchanged between JN and JA must be "protected". For the moment we can assume to use K1.
        + if K1 is known by all nodes, does not protect, or even "protect" the exchanges.
      * JA does not know JN; it does not have the corresponding Device Descriptor for JN; it must implement a procedure for understanding if the join message should be forwarded or not (protection against DoS ? )
        + It could use 802.15.9 and create pairwise key between JA and JN using authentication that is forwarded to the JCE.
      * the format of join packets should be defined. Input from COSE. The first packet sent by JN should also contain the ASN (of course, also this field is protected by the PSK). This should avoid replay attacks
        + With ASN you need to define the timing constraints, i.e. how old ASNs you are willing to accept?
      * definition of mechanisms for installing K2 in JN.
        + 802.15.9
      * the distribution of link layer keys is another problem. Two possibilities: centralized (JCE distribute keys) or distributed (KMP). Should we define procedures/message formats for both of them ?
        + 802.15.9
    - 15.4 Header fields in Minimal – the following excerpts show the confusion over PAN ID compression caused by 15.4e. The SCm effort to correct the PAN ID instructions with 15-15-0561-06 should be distributed to 6tisch along with a liaison letter to lend it additional credibility
      * The IEEE802.15.4 header of all frames MUST include the Sequence Number field, the Source Address field and the Destination Address field and only the Destination PANID. Source and destination address fields MUST be filled with an extended address (64 bit) and this be indicated in the corresponding Frame Control field. In case of a destination broadcast address, the address field MUST be filled by a short addresses (16bit). The Destination PANID MUST be present and the Source PANID MUST be elided
      * I don't actually see how 802.15.4e-2012 Table 2a can actually be used as it is erroneous as described above. I would be interested to know if anyone is doing it this way, especially using PAN ID compression set to 1.
  + Review of IETF93, Prague; 20 – 25 July 2015 the chair’s summary (contained in 15-15-0704-00) was reviewed
  + ReCharter this is an ongoing effort

**11:40** Meeting adjourned