**IEEE P802.15**

**Wireless Personal Area Networks**

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| Project | IEEE P802.15 Working Group for Wireless Personal Area Networks (WPANs) |
| Title | Minutes of IEEE 802.15.8 TG teleconference meeting on February 11th ET, 2015.  |
| Date Submitted | February 12th , 2015 |
| Source | Marco Hernandez (NICT) |
| Response |  |
| Abstract |  |
| Purpose | For reference in TG8  |
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**Content**

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Chair: HB Li (NICT) Japan.

Secretary: Marco Hernandez (NICT), Japan.

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Wednesday February 11th, 8:00 PM ET.

Participants: Qing, Marco, Igor, BJ, Dr. Joo, HB Li, Prof. Lee, J.S. Lee.

−Chair calls the teleconference meeting to order.

**Chair:** The agenda for this teleconference includes 2 presentations submitted to the email reflector. One submitted by Marco and another one submitted by BJ and JS Lee.

**Chair:** JS Lee, you can start.

1st presenter is JS Lee (ETRI) “Introduction to 802.11 association procedure”, a power point document submitted to the reflector.

**Comments:**

**Qing:** In the key establishment and authentication, what method is it?

**Response:** Temporal asymmetric key management.

**Qing:** In the Wi-Fi P2P scenario, is the owner in charge of authentication?

**Response:** The temporal owner is in contact with the authentication server.

**BJ:** But in case the owner is not connected to the authentication server?

**Response:** I think that case is not contemplated, although, devices may share keys in advance.

**Qing:** What about multi-hop?

**Response:** Wi-Fi P2P is not multi-hop. The security protocol is more complicated in multi-hope, though.

**Li:** What about Wi-Fi in ad hoc mode?

**Response:** In that case there is no owner.

**Li:** There is only 1 group.

**Response:** Wi-Fi P2P does not provide groups. PAC is more complicated.

**Qing:** The ad hoc mode is BS to BS. It does not compare with PAC.

**Li:** To reduce the time, piggy backing is used.

**Response:** Correct.

**BJ:** SJ Lee will make another presentation during the March meeting.

**Chair:** Let’s hear Marco’s presentation.

2nd presenter is Marco (NICT) “Distributed scheduling for CFP”, a power point document submitted to the reflector.

**Comments:**

**BJ:** I think Marco’s proposal is similar to Shannon’s. How do you reduce the tone matrix?

**Response:** I have not designed and dimensioned the tone matrix. I am presenting the core idea only.

**BJ:** Why are there 3 blocks in the tone matrix?

**Response:** Because of the limitation of half-duplex. PDs cannot transmit and receive at the same time. That means in a communication session we have 2 links: forward and reverse. In the forward link PD1 transmits and PD2 receivers. In the reverse link PD1 receives and PD2 transmits. So, I need to address the forward and reverse link for transmission. Still, I need to figure out how to resolve possible conflict.

**Li:** This scheme has the disadvantage when there are many nodes. It is inefficient.

**Response:** That is misleading. Any scheme will lose efficiency when the number of nodes is very large.

**Li:** We can add another scheme that is more efficient.

**Response:** If somebody else presents an alternative distributed solution, we can check it out.

**Joo:** Is the tone matrix in the superframe?

**Response:** Yes, right after the CAP.

**Qing:** Can somebody tell me the Shannon proposal document?

**Response:** I can say something. Shannon divided the scheduling period into scheduling request and scheduling response, but he did not elaborate further than that.

**BJ:** I do not recall the document, but it is based on SINR like Marco’s.

**Response:** Let me double check.

**Chair:** Shannon sent me an email agreeing to be the champion for the assignments in DCN 14-657r5 and DCN 15-74r0. We can check the progress in the next teleconference.

**Prof. Lee:** Thank you very much for the technical contributions. I think we can make a good progress for the March meeting.

**Chair:** Any comments? Hearing none, talk to you in the next conference call. The teleconference is adjourned.