IEEE P802.11
Wireless LANs

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| Wireless Next Generation (WNG) Standing CommitteeMeeting Minutes for March 2016 MeetingMacao, China |
| Date: 04-13-2016 |
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Abstract

Minutes for the WNG SC meeting held in Macao, China - March, 2016.

**Tuesday, March 15, 2016, 8:00 AM to 10:00 AM Macao Time**

Chair: Jim Lansford (Qualcomm)

Vice Chair: Lei Wang (Marvell)

**Meeting Agenda:**

The meeting agenda is shown below, and also published in the agenda document:

<https://mentor.ieee.org/802.11/dcn/16/11-16-0226-01-0wng-agenda-for-wng-2016-03.ppt>

* Call Meeting to Order
* Agenda approval
* Attendance reminder
* Documentation reminder
* Approval of Previous meeting minutes

 <https://mentor.ieee.org/802.11/dcn/16/11-16-0162-00-0wng-wng-2016-january-atlanta-minutes.docx>

* Announcements
	+ Call for student research topics
* Presentations
* Plans for May 2016
* Adjournment

**Meeting Minutes:**

* Meeting called to order at 08:03AM (Macao local time) on Tuesday, March 15th, 2016 by Chair, Jim Lansford.
* Agenda approval: <https://mentor.ieee.org/802.11/dcn/16/11-16-0226-01-0wng-agenda-for-wng-2016-03.ppt>
* The agenda was approved by unanimous consent
* The chair also noted the affiliation FAQ, anti-trust FAQ, ethics code, IEEE 802.11 policies and procedures, and IEEE 802 policies and procedures
* The chair covered the voting rules for WNG SC, being a standing committee
* Approximately 143 people were in attendance.
* Approval of previous meeting minutes
* The minutes for Altanla, January 2016 meeting had been available for review since January 25, 2016.

<https://mentor.ieee.org/802.11/dcn/16/11-16-0162-00-0wng-wng-2016-january-atlanta-minutes.docx>

* + The minutes was approved by unanimous consent.
* Announcment: Call for student research topics
	+ Chair requested for inputs for student research topics.
	+ Disucssion: suggest presenting the student research results here.
* Presentations:
1. 11-16-0436-00-0wng-lifi-concept-use-cases-and-progress

<https://mentor.ieee.org/802.11/dcn/16/11-16-0436-00-0wng-lifi-concept-use-cases-and-progress.pptx>

* + Nikola from pureLiFi Ltd. presented contribution 16/0436
	+ Summary of Discussion
	+ Discussion about energy efficiency; and the presenter plans to bring back further information.
	+ Q: Can LiFi work if put iPhone in the pocket?
	+ A: no, it won’t. But people use the phone with more data traffic when holding it.
	+ Discussions about next-step plan about this topic and the relationship with a similar group in 802.15 WG; and the presenter indicated he want to get feedback, moving forward, probably in July meeting, starting a SG to study LiFi, use as new PHY.
	+ Comment: try to avoid interference; use different frequencies of light, then will be colorful lights.
	+ Response: different frequency does not mean different color; color is one way for interference avoidance.
	+ Discussions about market window and time-to-market with LiFi.
1. 11-16-0351-01-0000-liaison-from-3gpp-on-lwa-and-lwip

<https://mentor.ieee.org/802.11/dcn/16/11-16-0351-01-0000-liaison-from-3gpp-on-lwa-and-lwip.pptx>

* + 3GPP representatives, Richard Burbridge (3GPP RAN2 chair - Intel), Sasha Sirotkin (LWA WI Rapporteur - Intel), and Philippe Reininger (3GPP RAN3 chair - Huawei), presented the contribution 16/0351r1: Liaison from 3GPP on LWA and LWIP
	+ Summary of Discussion
	+ Q: where is the security key comes from?
	+ A: go through 3GPP authentication first, the key will be derived.
	+ Q: use IPsec kyes, slide 20, when do you generate IPsec?
	+ A: don’t change IPsec, in 3GPP there is a separate committee talking care of Secuirty
	+ Q: slide 12, security, what advacates to UE?
	+ A: need further clairificaiton.
	+ Q: with fast BSS transition, Communitcaation between eNB and WT? RFC?
	+ A: haven’t decided the other side of WT, need further clarification.
	+ Q: what do you plan to do to get an independatn security review?
	+ A: security part is in security committee in 3GPP, SA3
	+ Q: slide 19, what are the interfaces among different bear type, switch bear; gateway, interworking at eNB vs. CN?
	+ A: don’t define interface yet. Will specify specify 3GPP part. One natural deployment scenario is to integrate WT into eNB, not access network.
	+ 802.11 Chair: thanks for the 1st liaison. Identify dot11 parts/components. How do we make sure dot11 in part of that picture? How 802.11 techenology related to 5G/IMT2020?
	+ A: difficult to provide instant response now regarding 3GPP position regarding IEEE technologies in 5G. 3GPP 5G work just started. Will discuss.
	+ Q: slide 20, table comparing LWA and LWIP, LWA is intended to intergrate; LWIP provides similar performance but provide much less complexity and flexibly; BRCM has a demo showing LWIP works very well on switched bear. Fast WLAN authentication, WLAN can do it. We have 11r and 11ai to provide solutions. LWA is DL only, while LWIP can do both, that’s 3rd advantage for LWIP. WLAN has developed throughput measurements.
	+ A: throughtput measurement will be discussed in Rel-14. Haven’t see performance studies for LWIP; need further discussion.
	+ 802.11 Chair: question to members, regarding response to the Liaison
	+ Did not get time to discuss due to reaching the session-end time point.
* Plans for May meeting:
	+ Call for contributions: the WNG chair will issue a call for contributions before the 2016-May meeting.
* Adjournment
	+ The meeting adjourned, without objection, at 10:01am Macao Time.