IEEE P802.11
Wireless LANs

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| May 2015 NGP SG Minutes |
| Date: 2015-05-12 |
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Abstract

This document contains the meeting minutes for the 802.11 NGP SG meeting in IEEE F2F Vancouver, May 11-15 2015.

# Meeting Minutes – NGP-SG Session 1, May 12 2015

## IEEE IPR Notice

Chair: Jonathan Segev/Intel, Secretary: James Wang (standing in for Gabor Bajko), Mediatek

## MINUTES

* Chair announced IEEE attendance, meeting rules and IEEE SA, guideline, and patent policy.
* The May 12 Meeting slides contain the agenda and discussion slides, which is summarized here:

* + Patent and Antitrust policy
	+ Approve previous meeting minutes (11-15/474r0).
	+ List of Presentations (as listed in 11-15/499r2)
		- Review of PAR working draft (Brian Hart, Cisco)
		- Review of CSD working draft (Brian Hart, Cisco)
		- Selected Use Cases (Thomas Handte, Sony)
		- Automotive Use Case (Igal Kotzer, General Motors)
		- Additions to use case document (Ganesh Venkatesan, Intel).
	+ Schedule teleconference times as needed.
* Chair went through the Patent and Antitrust policy, IEEE 802 procedure, and proposed agenda and showed the submissions so far. Chair asked if time slot allocated is fine and if any request for agenda change. There were no request.
* Brian Hart presented the updated PAR draft. Meng Wang from Ericsson asked to cosign the PAR document.
* Brian Hart presented the updated CSD draft. A member raised a concern about mentioning the installation cost in CSD. Brian said that we did not discuss specific dollar amount but only relative level. And that the impact on installation cost is a mandatory section made by the CSD template. Brian hart also discussed about the feasibility of AoA techniques and added a statement in reference [9] that these have established feasibility.
* Chair ran a motion to adopt the PAR 030r8 as the working draft for PAR development. Mark questioned if this is the final version. Chair said that we approved the draft first to allow for members to review and planned to motion this PAR document on Wednesday. Ganesh was the mover and Brian was the seconder. Motion approved by unanimous consent (35 members present).
* Chair ran a motion to adopt the CSD 262r4 as the working draft for CSD development. Ganesh was the mover and Brian was the seconder. Motion approved by unanimous consent (35 members present).

* Members approved 11-15/474r0 meeting minutes. There is no objection. Praveen was the mover and Alan Zhu was the seconder. The motion passes by unanimous consent.
* Members approved 11-15/524r1 teleconference meeting minutes. There is no objection. Ganesh was the mover and Chenchen Liu was the seconder. The motion passes by unanimous consent.
* Thomas Handte (Sony) presented document 11-15/561r1. The first case is Home Audio. The second case is Navigation in Public Building. Santosh asked which device is tracking which device. Thomas said the audio system and speaker both have WiFi and Speaker initiate the process. Santosh said that it is better to add a probability measure to the 10 meter requirement. Thomas said that he would update the document.

* Igal Kotzer (General Motor) presented Locating Purposes for Vehicles 11-15/629r1. Related use cases are Access and Security, Safety, and Comfort. Santosh questioned if some of these was relevant to WiFi. For example, if someone in the car, we couldn’t assume that the occupant always carried a WiFi. Locking and unlocking a vehicle by detecting a cellphone approaching a car, Santosh said that NFC was always doing. Igal said that it was easier to use WiFi in cellphone to detect a person approach a car with WiFi. Ganesh said that additional mechanism to detect a person approaching a car was good. 60GHz system could detect a person as well. Yasantha of Mediatek made a comment that detecting a driver in the vehicle. There could be multiple cell phones for detecting passenger in the vehicle. Igal said that it did not need to be accurate. Igal said that it could be way to assist the detection but might not have the reliability.

Igal ran a straw poll to add the “access and security” use case to the working draft. 13 yes, N: 0, A: 16

Igal ran a straw poll to add the “comfort” use case to the working draft. 13 yes, N: 0, A: 15

* Ganesh presented additional use case cases for NGP document 0634r0. He discussed about definition of accuracy. Yasantha wanted to discuss about accuracy definition further with Ganesh offline. Ganesh also discussed Micro location in store. Santosh asked Ganesh about Power-location trade-off. Santosh said that how it would be different from use case to use case. Santosh and Jonathan both made some suggestions to Ganesh. Ganesh presented Museum Exhibit use case. Santosh asked questions about the refresh rate. Yasantha also suggested to reword the last statement in Slide 8.
* NGP SG Meeting officially adjourned at 10:00 am 5/12/’15.

# Meeting Minutes – NGP-SG Session 2, May 13 2015

* Chair announced IEEE attendance, meeting rules and IEEE SA, guideline, and patent policy.
* The May 13 Meeting slides contain the agenda and discussion slides, which is summarized here:

* + Patent policy
	+ Review of PAR modifications
	+ Approve PAR document
	+ Approve CSD document
	+ AOB
* Motion to forward PAR11-15/030r6 be posted to IEEE 802.11 EC agenda for WG 8021 preview and for Nescom approval. Ganesh was the mover and Brian Hart was the seconder. Y: 26, N:0, A:2
* Motion to forward CSD11-15/262r4 be posted to IEEE 802.11 EC agenda for WG 8021 preview and EC approval. Ganesh was the mover and Brian Hart was the seconder. Y: 28, N:0, A:2
* Ganesh continued to present Additional Use Cases for NGP document 634r1. He said that he incorporated some feedbacks into the document. Santosh commented about “network” bandwidth, device/estimate versus frame exchange/device/estimate. Santosh suggested to have clear definition of various terms before putting it in the use case. He suggested to poll the group about this. Yasantha made some comments about the term “power” versus “energy”. Ganesh said that he would update the document and bring it back to the group. Yasantha commented about the museum use case about the floor height was required. Yasantha and Santosh discussed and commented on the use of AoA on the toll booth with video kiosk use case.
* Ganesh continued to present the document about preliminary simulation results on AoA accuracy in 2.4/5GHz bands (11-15/644r0). There was a question about how the graph for two dimensional array has a single angle only. James commented that the height needs to be specified.
* Chair reviewed the study group time line. He indicated the plan to have approval from Nescom in July and Task group formation in September. The teleconference is scheduled for July 1st at 10:00am ET for one hour. Chair ran a straw poll to approve the teleconference call schedule. Chair ran a motion for approval of the teleconference call schedule. Ganesh was the mover and Mark was the seconder. The motion was approved by unanimous consent. (71 members present).
* Chair announced NGP meeting adjourned at 9:13 am 5/13/’15.