IEEE P802.11
Wireless LANs

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| 802.11 TGaf January 2012 Jacksonville Interim Meeting Minutes |
| Date: 2012-01-21 |
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Abstract

This document contains the meeting minutes from the 802.11 TGaf meeting, held at the January 2012 IEEE 802 Wireless Interim meeting.

 **January 16th , 2011 (Monday) AM 10:30-12:30**

**Notes – Monday, January 16th, 2011; with 40+ attendees, AM1 session**

1. **Richard Kennedy (RIM) is the chair of the group. Peter Ecclesine (Cisco) is the vice-chair of the group. Chair called meeting to order: 10:30 am.**
2. **The plan of the week was reviewed and approved by unanimous consent.**
3. **The meeting agenda of this session was reviewed and approved by unanimous consent.**
4. **Introduction**
	1. Chair welcomed participants.
	2. Chair reminded participants to record their attendance.
5. **Administrative items**
	1. Chair reviewed the administrative items and presented the links for accessing the related documents.
	2. Chair reviewed the patent policy and meeting guideline slides. Chair asked: “Are there any questions on the slides?” None.
	3. Chair asked: “Are there any patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard?” None.
	4. Chair reviewed other guide lines of the IEEE WG meetings.
	5. Chair reviewed IEEE-SA bylaws and operations manual.
	6. Chair reviewed task group chair functions and authority.
6. **Chair reviewed the PAR Scope and Purpose, Purpose, Principles and Vision/Outcome of the project.**
7. **Motion to approve the TGaf minutes from the November Plenary in Atlanta, and November 22nd and 29th, December 6th, 13th and 20th and January 3rd and 10th teleconferences in documents 11-11/1588r0, 11-11/1602r0, 11-11/ 1613r0, 11-12/0009r0, 11-12/0003r0, 11-12/0016r0 and 11-12/0019r0 respectively.**
	1. **Moved by Mike Montemurro (RIM), seconded by Marc Emmelmann (FOKUS)**
	2. **Discussions: None**
	3. **Passes by unanimous consent.**
8. **Motion to approve document 11-11/277r25 as the LB171 comment resolution spreadsheet.**
	1. **Moved by Harry Worstell (AT&T), seconded by Alan Berkema (HP)**
	2. **Discussions: None**
	3. **Passes with unanimous consent.**
9. **Motion to approve speculative draft P802.11af D1.05, posted on 2011-11-30, as the working draft.**
	1. **Moved by Padam Kafle (Nokia), seconded by Zhou Lan (NICT)**
	2. **Discussions: None**
	3. **Passes with unanimous consent.**
10. **Peter Ecclesine as the TG editor reviewed the progress since November.**
	1. There are 3 MAC comments that have no resolution, 31 MAC comments have proposed resolution but not motioned yet.
	2. Clause 23 of 11af is not available for the moment. 11ac PHY is still our target.
11. **Peter Ecclesine presented document 802.11-11/1540r0 for comments related with security.**
12. **CID 661 was withdraw by the commenter mentioning the comment has been addressed by the current draft, no further modification is needed.**
13. **C.S. Sum (NICT) presented document 802.11-12/31r1 for comments related with security.**
14. **Motion to approve the resolution to CID 1186 in document 11-11/1540r0, and to CID 1173 in document 11-12/0031r1.**
	1. **Moved by Peter Ecclesine (Cisco), seconded by C.S. Sum (NICT)**
	2. **Discussion: None**
	3. **Passes with 19 YES, 0 No and 1 ABSTAIN**
15. **Padam Kafle (Nokia) presented document 802.11-11/1549r1 for CAQ related comment resolution.**
	1. **Motion to approve 802.11-11/1549r1.**
		1. **Moved by Padam Kafle (Nokia), Seconded by Harry Worstell (AT&T)**
		2. **Discussions: None**
		3. **Passes with 20 YES, 0 No and 0 ABSTAIN.**
16. **Discussion on comment CID 876.**
	1. **Motion to resolve 876 with this text: Reject because this primitive can carry information that is defined in this amendment and vendor specific elements as defined in 802.11revmb D12.0.”**
		1. **Moved by Zhou Lan (NICT), Seconded by Padam Kafle (Nokia).**
		2. **Discussions: None**
		3. **Passes with 19 YES, 0 NO and 1 ABSTAIN.**
17. **Recessed at 12:23 AM.**

**January 16th , 2012 (Monday) PM 1:30-3:30**

**Notes – Monday, January 16th, 2012; with 30+ attendees, PM1 session**

1. **Richard Kennedy (RIM) is the chair of the group. Peter Ecclesine (Cisco) is the vice-chair of the group. Chair called meeting to order: 1:30 pm.**
2. **The agenda of the session was reviewed and approved by unanimous consent.**
	1. The agenda is amended with adding “What’s My (base) Line”.
3. **Introduction**
	1. Chair welcomed participants.
	2. Chair reminded participants to record their attendance.
4. **Administrative items**
	1. Chair reviewed the administrative items and presented the links for accessing the related documents.
	2. Chair reviewed the patent policy and meeting guideline slides. Chair asked: “Are there any questions on the slides?” None.
	3. Chair asked: “Are there any patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard?” None.
	4. Chair reviewed other guide lines of the IEEE WG meetings.
	5. Chair reviewed task group chair functions.
5. **Peter Ecclesine reviewed “What’s My (base) Line”**
	1. Robert Stacey (Apple) commented putting everything in ac to af will drag people’s attention from ac to af and generate more comments.
	2. Jens Tingleff (CSR) said adding reference to clause 20 is better than adding the whole text of ac.
	3. Padam Kafle (Nokia) suggested to create 23 and refer mostly to clause 22.
	4. Joseph Kwak (InterDigital) commented separated clause makes much more sense.
	5. Someone (Qualcomm) asked for clarification of the motion in last November meeting regarding adopting 11n PHY.
	6. Peter Ecclesine responded there was no motion in last meeting regarding adopting 11n PHY.
	7. Robert Stacey commented an architecture document like what 11ah did would be good for 11af.
	8. Peter Ecclesine commented the 802.11r RRB can be used to replace RLQP for AP to talk to RLSS.
	9. Padam Kafle commented RRB can be one option, but there is no reason to use RRB to replace RLQP.
6. **Recessed at 3:28 PM.**

**January 17th , 2012 (Tuesday) AM 8:00-10:00**

**Notes – Tuesday, January 17th, 2012; with 20+ attendees, AM1 session**

1. **Richard Kennedy (RIM) is the chair of the group. Peter Ecclesine (Cisco) is the vice-chair of the group. Chair called meeting to order: 8:00 am.**
2. **The agenda of the session was reviewed and approved by unanimous consent.**
3. **Introduction**
	1. Chair welcomed participants.
	2. Chair reminded participants to record their attendance.
4. **Administrative items**
	1. Chair reviewed the administrative items and presented the links for accessing the related documents.
	2. Chair reviewed the patent policy and meeting guideline slides. Chair asked: “Are there any questions on the slides?” None.
	3. Chair asked: “Are there any patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard?” None.
	4. Chair reviewed other guide lines of the IEEE WG meetings.
	5. Chair reviewed task group chair functions.
5. **JaeHyung Song (LGE) presented document 802.11-11/1102r2 for CPM related comment resolution.**
	1. Zhou Lan (NICT) asked why CPM element should be in the probe request and response frame given probe request and response is not secured.
	2. Peter Ecclesine responded any station may request and get a response from the AP for CPM element.
	3. **Motion to approve the resolutions in document 802.11-11/1102r2 with changes shown on the screen to become r3.**
		1. **Moved by Peter Ecclesine (Cisco), Seconded by Padam Kafle (Nokia)**
		2. **Discussions: None**
		3. **Passes with 10 YES, 0 NO and 0 ABSTAIN.**
6. **Peter Ecclesine presented document 802.11-11/1558r0 for general comment resolution.**
	1. Padam Kafle (Nokia) commented there is dramatic difference of transmission power between fixed device and personal portable device.
	2. Peter Ecclesine responded there is no fixed device in metropolitan area. There is no difference compared with 2.4GHz band.
	3. Padam Kafle responded there is no high power in 2.4 GHz BSS, it is only point to point.
	4. Peter Ecclesine responded US 2.4GHz allows unlimited antenna gain.
	5. **Motion to approve the resolutions in document 802.11-11/1558r0 with changes shown on the screen to r1.**
		1. **Moved by Sean Coffey (Realtek), Seconded by Peter Ecclesine (Cisco)**
		2. **Discussion:** Padam Kafle spoke against the motion because there is another document proposes a counter proposal. That proposal has not been heard.
		3. **Fails with 4 YES, 8 NO and 1 ABSTAIN.**
	6. **Motion to approve the resolutions in document 11-11/1558r0 for CIDs 642, 643 and 644.**
		1. **Moved by Peter Ecclesine (Cisco), Seconded by Zhou Lan (NICT)**
		2. **Discussion: None**
		3. **Passes with 11 YES, 0 NO and 4 ABSTAIN.**
7. **Recessed at 9:20 am Local time.**

**January 17th , 2012 (Tuesday) PM 1:30-3:30**

**Notes – Tuesday, January 17th, 2011; with 80+ attendees, PM1 session. This is a joint session with TGac.**

1. **Richard Kennedy (RIM) is the chair of the group. Peter Ecclesine (Cisco) is the vice-chair of the group. Chair called meeting to order: 1:32 pm.**
2. **The agenda of the session was reviewed and approved by unanimous consent.**
3. **Introduction**
	1. Chair welcomed participants.
	2. Chair reminded participants to record their attendance.
4. **Administrative items**
	1. Chair reviewed the administrative items and presented the links for accessing the related documents, placing emphasis on his responsibility to deliver a quality draft standard in a timely fashion, as outlined in the WG P&P, asking that comments and comment resolutions be in the best interest of the standard.
	2. Chair reviewed the patent policy and meeting guideline slides. Chair asked: “Are there any questions on the slides?” None.
	3. Chair asked: “Are there any patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard?” None.
	4. Chair reviewed other guide lines of the IEEE WG meetings.
	5. Chair reviewed task group chair functions.
5. **Peter Ecclesine reviewed the status of the TG.**
6. **Ron Porat (Broadcom) presented document 802.11-11/1544r1 for initial PHY proposal of 11af.**
	1. Adrian Stephens (Intel) asked for a clarification of the detailed plan of creating 11af PHY clause, whether it is a copy and paste approach or it is a proving difference approach.
	2. Ron Porat (Broadcom) responded a new clause 23 will be created for 11af PHY.
	3. Eldad Perahia (Intel) commented creating difference between 11ac and 11af is more preferred given there is already existing example of such an approach of 11j created from 11a.
	4. Jens Tingleff (CSR) spoke in favour of creating difference.
	5. Vinko Erceg (Broadcom) spoke in favour of creating difference too.
	6. Adrian Stephens asked about how to handle the MAC clauses that are related with adopting 11ac PHY, MU-MIMO, Aggregation for example.
	7. Adrian Stephens asked whether there is an intention in the group to specify the transmission spectrum mask, PA back off.
	8. Peter Ecclesine responded in Annex D there are already spectrum masks defined from the 802.11p amendment. We can also have our own masks defined for the use of TVWS in US and other countries.
	9. Eldad Perahia (Intel) commented 11ac and 11n has channel-width specific masks defined.
7. **Peter Ecclesine presented document 802.11-11/1623r1 for channelization plan.**
	1. Padam Kafle (Nokia) commented the channel plan seems supporting partially overlapping channels.
	2. V. K. Jones (Qualcomm) asked what is the meaning of channel spacing of 4MHz.
	3. Peter Ecclesine responded 4MHz is the signal bandwidth. It is not the channel spacing.
8. **Recessed at 3:30 am Local time.**

**January 18th , 2012 (Wednesday) AM 8:00-10:00**

**Notes – Wednesday, January 18th, 2012; with 30+ attendees, AM1 session**

1. **Agenda was reviewed and approved.**
2. **Introduction**
	1. Chair welcomed participants.
	2. Chair reminded participants to record their attendance.
3. **Administrative items**
	1. Chair reviewed the administrative items, placing emphasis on his responsibility to deliver a quality draft standard in a timely fashion, as outlined in the WG P&P, asking that comments and comment resolutions be in the best interest of the standard, and presented the links for accessing the related documents.
	2. Chair reviewed the patent policy and meeting guideline slides. Chair asked: “Are there any questions on the slides?” None.
	3. Chair asked: “Are there any patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) that the participant believes may be essential for the use of that standard?” None.
	4. Chair reviewed other guide lines of the IEEE WG meetings.
	5. Chair reviewed task group chair functions.
4. **Padam Kafle presented document 802.11-11/1272r5 for NII to resolve coexistence related comments.**
	1. Peter Ecclesine as an individual spoke against the discussion part of comment CID 8.
	2. Peter Ecclesine requested Padam to show D 1.05 on the screen to allow the floor understand the relation with other mechanisms such as CAQ and CSM.
	3. Padam Kafle responded all the changes are aligning with D1.05.
	4. Wookbong Lee (LGE) commented the problem exist in current system such as cellular, what reason makes this mechanism is so special.
	5. Peter Ecclesine commented 5/10MHz in TVWS is equivalent to 20/40MHz in 2.4GHz. The same problem is in 2.4GHz.
	6. Peter Ecclesine commented the resolution of the estimated power should be in units of 0.5 dBm.
	7. Padam Kafle agreed with Peter on the representation of the estimated power.
	8. Peter Ecclesine commented it is important this submission should be written in the same way as other Draft 1.05 mechanisms.
5. **Peter Ecclesine presented document 802.11-11/1558r2 for comment resolution.**
6. **Motion to approve the resolutions in document 802.11-11/1272r5 with changes shown on the screen to become r 6.**
	1. **Moved by Padam Kafle (Nokia), Yohannes (NICT)**
	2. **Discussion: None**
	3. **Passes with 18 YES, 5 NO and 2 ABSTAIN**
7. **Steve Shellhammer (Qualcomm) presented document 802.11-1/1624r0 for representation of transmission characteristics**
	1. Peter Ecclesine commented 2 octets are not needed for the channel number, because 802.11 channels have values from 1 to 200.
	2. Zhou Lan asked what are the major differences of this proposal compared with the approach of 802.11p’s spectrum masks.
	3. Peter Ecclesine responded the 802.11p masks restrict the out band emission to only adjacent channel. However, TVWS operation requires the database to look at the interference on next several adjacent channels. There is approximately 100MHz of spectrum to either side of the signal bandwidth that needs to be considered to protect DTV and wireless microphones.
8. **Rich Kennedy reviewed the meeting plan for teleconference and March meeting, and adjusted the TG timeline.**
9. **Meeting adjourned at 10:00 am Local time.**
10. **References:**
11. <https://mentor.ieee.org/802.11/dcn/12/11-12-0145-00-00af-jacksonville-closing-report.ppt>
12. <https://mentor.ieee.org/802.11/dcn/11/11-11-1272-06-00af-proposed-text-for-neighboring-network-information-sharing-through-rlss.docx>
13. <https://mentor.ieee.org/802.11/dcn/11/11-11-1558-02-00af-lb171-some-general-comment-resolutions.doc>
14. <https://mentor.ieee.org/802.11/dcn/11/11-11-1102-03-00af-proposed-resolution-to-cpm-element.docx>
15. <https://mentor.ieee.org/802.11/dcn/11/11-11-1549-01-00af-resolutions-to-remaining-caq-comments.doc>
16. <https://mentor.ieee.org/802.11/dcn/11/11-11-1605-01-00af-meeting-plan-and-agenda-jacksonville-2012.ppt>

<https://mentor.ieee.org/802.11/dcn/12/11-12-0031-01-00af-resolutions-to-security-related-comments.doc>