IEEE P802.11
Wireless LANs

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| IEEE 802.11 TGah,March 2016 TGah Session Meeting Minutes |
| Date: 2016-3-14 |
| Author(s): |
| Name | Affiliation | Address | Phone | Email |
| Eugene Baik | Qualcomm Inc. |  |  | eugeneb@qca.qualcomm.com |

Abstract

TGah meeting minutes from the IEEE 802.11 Atlanta session, March 14th-18th, 2016.

**IEEE 802.11 Task Group ah,**

**March 2016 Meeting**

**The Venetian, Macau, PRC**

**March 14th-18th, 2016**

## TGah Monday PM2 session

Li-Hsiang Sun (Interdigital) volunteers to be secretary for this session

IPR and other relevant policy and procedures

Chair announced IEEE IPR policies and called for essential patent claims. No one responded

Approve meeting minutes

Move to approve minutes of F2F January meeting (11-16/0175r0) and conf call minutes (11-15/1480r0, 11-15/1493r0, 11-15/1505r0, 11-15/1533r0, 11-15/1538r0, 11-16/0003r0, 11-16/0011r0, 11-16/0257r0, 11-16/0312r0)

moved by Eugene Baik, seconded by Naveen Kakani, approved by unanimous consensus

The chair reviewed the status of comment resolutions/assignments, and announced the discussion time slot for IPR related comment.

**Approve Monday PM2 agenda**:

To discuss comment resolutions for PHY clause 23 in document 16/0348r1

Moved by Naveen Kakani, Seconded by Matt Fisher, approved by unanimous consensus

Presentation of comment resolutions of clause 23, 11-16-0348-01 by Eugene Baik

* Changes made to the comment resolution CID 9011 based on Adrian Stephens' comment:
* corrected the future tense of the comment resolution
* Use <this document ID no> flag for self-referencing throughout this document
* Changes to comment resolution CID 9009, 9010 based on Adrian Stephens' comment:
* Removed “reserved and” in the last sentence. Reserved means that in the future the field maybe reused with another value. The group decided that “reserved” is not appropriate
* Changes to text modification in 23.3.8.2.1.1 for CID 9011, 9078, 9079 based on Adrian Stephens' comment:
* removed “always” in “The STF, LTF, and SIG fields always start as single-stream during generation but are replicated ...”
* Removed unnecessary instructions to the editor throughout this document based on Adrian Stephens' comment
* Rewording in the new text in 23.3.8.2.2.2.2 2 based on a suggestion by the Chair: “Mu is defined in table 23-6”
* “section” is reworded to “sub-clause” throughout the modified text in the document

Chair announced that the 11ah meeting is recessed until Tuesday PM1

## TGah Tuesday PM1

Meeting called to order 1:33pm

Eugene Baik (Qualcomm) volunteers to be Secretary

IP Review - Call for essential patents

 - No one speaks up

Agenda:

 - Topic related to Relay Improvements

 -- Xiaofei Wang - Relay Improvements Doc. 11-16/0336r0

 - CID Resolution Contributions

 -- Eugene Baik - Clause 23 CID resolutions Doc. 11-16/0348r2

Xiaofei Wang (Interdigital) - Relay Improvements Doc. 11-16/0336r0

 - Related to rejection of CID 8459 from SB0

 -- Current SB1 CIDs 9058 and 9075

 - Traffic congestion related problems not solvable by current mechanisms

 - Proposes potential solutions to problems in current TGah draft

 -- Relay tree add/trim algorithm

 -- Restrict Relay STA behavior at time of activation

- Strawpoll 1: Do you agree that a Relay STA may optionally be restricted to associate with a limited number of STAs through its Relay AP?

 -- Y: 2 N: 0 A: 4

- Strawpoll 2: Which option do you prefer to limit the number of STAs that a Relay STA is allowed to associate through its Relay AP?

 -- Option 1- Y: 2 N: 1 A: 5

 -- Option 2- Y: 2 N: 0 A: 4

 -- Other option- Y: 0 N: 0 A: 6

 - Presenter states will generate CID resolution based on feedback received on strawpolls

Eugene Baik - Clause 23 CID resolutions Doc. 11-16/0348r2

- Adds 1 CID (9016) resolution to the document that was not included in r0, r1 of document

 -- Regarding APEP\_LENGTH description in TXVECTOR/RXVECTOR

 - Pre-motion to accept CID resolutions in 11-16/0348r2

 -- Y: 6 N: 0 A: 1

 -- Passes

Agenda items covered, session recessed until tomorrow AM1

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## TGah Wednesday AM1

Meeting called to order 8:03am

Eugene Baik volunteers to be Secretary

IP Review - Call for essential patents

 - No one speaks up

Agenda:

 - Doc. 11-16/0450r0 Resolution for CID 9065 - Rolf De Vegt (Qualcomm)

 - Doc. 11-16/0434r1 SB1 Comment Resolution Part2 - Yongho Seok (NEWRACOM)

 - Doc. 11-16/0446r0 Resolutions for CIDs 9058 and 9075 - Xiaofei Wang (Interdigital)

Rolf De Vegt (Qualcomm) - Doc. 11-16/0450r0 Resolution for CID 9065

 - Resolution for IP related CID9065, submitted by Benjamin Rolfe

 - WG Chair Adrian Stephens present, makes comment that rather than voting to rescind PAR, voters can simply vote No on Sponsor ballot

 - Pre-motion to accept the comment resolution for CID9065 as shown in 11-16/0450r0

 -- Y: 8 N: 0 A: 1

 -- 13 attendees present in room for vote

 -- Passes

Yongho Seok (NEWRACOM) (presented by Alfred) - Doc. 11-16/0434r1 SB1 Comment Resolution Part2

 - Provides resolutions for CIDs 9069, 9068, which revisit rejected comments from SB0

 - Adrian Stephens (Intel) makes comment suggestion on slight rewording of resolution

 - Revisions incorporated into R2 of document

- Pre-motion to accept comment resolutions for CID 9069, 9068 as shown in 11-16/0434r2

 -- Y: 11 N: 0 A: 0

 -- Passes

Xiaofei Wang (Interdigital) - Doc. 11-16/0446r0 Resolutions for CIDs 9058 and 9075

 - Presented resolutions for CID 9058, 9075

- Will revise document based on suggestions from Alfred and will present revised document at later session.

Meeting recessed until Wednesday PM2 session.

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## TGah Wednesday PM2

Meeting called to order 4:09pm

Eugene Baik volunteers to be Secretary

IP Review - Call for essential patents

 - No one speaks up

Agenda:

 - Yongho Seok (NEWRACOM) Doc. 11-16/0435r1 SB1 comment resolution part 3

 - Alfred Asterjadhi (Qualcomm) Doc. 11-16/0458r0 SB1 Misc Comment Resolutions Part 1

Yongho Seok (NEWRACOM) presented by Alfred Asterjadhi (Qualcomm) Doc. 11-16/0435r1 SB1 comment resolution part 3

 - Provides Resolution for CID 9066 related to Coexistence Assurance document

 - CID claims no coexistence mechanism exists, resolution adds text to provide clarification that it does.

 - Pre-motion to accept resolution to CID 9066 in R1 of document

 -- Y: 4 N: 0 A: 0

 -- Passes

Alfred Asterjadhi (Qualcomm) Doc. 11-16/0458r0 SB1 Misc Comment Resolutions Part 1

 - Provides resolutions for CIDs 9057, 9064, 9040, 9041, 9047, 9048, 9006

 - Minor revisions made during presentation will be reflected in R1 of document.

 - Comment by Li-Hsiang (Interdigital) regarding CID 9048 resolution.

 -- Alfred provides clarification.

 - No other questions or comments

- Pre-motion to accept resolutions to CIDs 9057, 9064, 9040, 9041, 9047, 9048, 9006 in R1 of document

 -- Y: 4 N: 0 A: 0

 -- Passes

No other items to discuss, TGah recessed until Thursday AM1

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## TGah Thursday AM1

Meeting called to order 8:04pm

Eugene Baik volunteers to be Secretary

IP Review - Call for essential patents

 - No one speaks up

Agenda:

 - Yongho Seok (NEWRACOM) Comment Resolutions Part 1 Doc. 11-16/0311r2

 - Yongho Seok (NEWRACOM) Comment Resolutions Part 4 Doc. 11-16/0453r0

 - Yongho Seok (NEWRACOM) Comment Resolutions Part 5 Doc. 11-16/0461r0

 - Matt Fischer (Broadcom) Comment resolutions (No doc ID yet)

Yongho Seok (NEWRACOM) presented by Alfred Asterjadhi (Qualcomm) Comment Resolutions Part 1 Doc. 11-16/0311r2

 - Earlier revision of document presented on previous conference call, continuation.

 - Resolutions for CID 9001, 9004

 - Premotion to accept resolutions as shown in R2 of document

 -- Y: 6 N: 0 A: 4

 -- Passes

Yongho Seok (NEWRACOM) presented by Alfred Asterjadhi (Qualcomm) Comment Resolutions Part 4 Doc. 11-16/0453r0

 - CID resolutions for 9059, 9060, 9061, 9062 9063,

 - Minor editorial revisions and clarifications to be reflected in R1 of document

 - No premotion run at this time.

Yongho Seok (NEWRACOM) presented by Alfred Asterjadhi (Qualcomm) Comment Resolutions Part 5 Doc. 11-16/0461r0

 - Resolution for CID 9055

 - Premotion to accept resolution for CID 9055 as shown in document.

 -- Y: 5 N: 0 A: 4

 -- Passes

Matt Fischer's presentation moved to agenda for PM1

Session recessed until PM1

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## TGah Thursday PM1

Meeting called to order 1:32pm

Eugene Baik volunteers to be Secretary

IP Review - Call for essential patents

 - No one speaks up

Agenda:

 - Matthew Fischer (Broadcom) - 11-16/470r0

 - Menzo Wentink (Qualcomm) 11-16/465r1

 - Alfred Asterjadhi (Qualcomm) 11-16/472r0

 - Yongho Seok (NEWRACOM) 11-16/453

 - Xiaofei Wang (Interdigital) 11-16/446

 - Alfred Asterjadhi (Qualcomm) 11-16/XXXX

Menzo Wentink (Qualcomm) presented by Alfred Asterjadhi SB1 Misc. Comment Resolutions 11-16/465r1

 - Provides resolutions to CIDs 9028, 9030, 9051, 9052, 9049, 9056, 9050

 - Pre-motion to accept comment resolutions as specified in document

 -- Y: 5 N: 0 A: 0

 -- Passes

Alfred Asterjadhi (Qualcomm) 11-16/472r0

 - Resolutions for CIDs 9046, 9005, 9007, 9067

 - Pre-motion to accept comment resolutions as specified in document

 -- Y: 5 N: 0 A: 0

 -- Passes

Xiaofei Wang (Interdigital) 11-16/446r3

 - Contiunation of previous version of document regarding resolutions for CIDs 9058, 9075

 - Pre-motion to accept comment resolutions as specified in document

 -- Y: 5 N: 0 A: 0

 -- Passes

Matthew Fischer (Broadcom) - SB1 CID 9035 9038 - 11-16/470r0

 - Resolutions for CIDs 9035, 9038 related to TWT

 - Premotion to accept comment resolutions as specified in document

 -- Y: 6 N: 0 A: 1

 -- Passes

Alfred Asterjadhi (Qualcomm) 11-16/476r0

 - Resolutions for CID 9008, 9025, 9026, 9027, 9029, 9031, 9032, 9033, 9034, 9036, 9037, 9039, 9042, 9043, 9044, 9045

 - Minor revisions applied during presentation reflected in version R1

 - Premotion to accept comment resolutions as specified in document

 -- Y: 3 N: 0 A: 1

Session is recess until Thursday PM2

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## TGah Thursday PM2

Meeting called to order 4:04pm

Eugene Baik volunteers to be Secretary

IP Review - Call for essential patents

 - No one speaks up

Agenda:

 - Yongho Seok (NEWRACOM) Comment resolution Part 4. 11-16/453r1

 - Motions for resolved CIDs in F2F, previous conference calls

Yongho Seok (NEWRACOM) but presented by Alfred (Qualcomm) Comment resolution Part 4- 11-16/453r0

 - Resolutions for CIDs 9059, 9060, 9063, 9061, 9062

 - Revisions applied by Alfred reflected in version R1 of document

- Matthew Fischer (Broadcom) makes suggestions for revisions to resolutions, reflected in version R1.

- Daewon Lee (NEWRACOM) makes suggestion on slight rewording of resolutions, reflected in version R1.

 - More additional changes from discussion after R1 uploaded are reflected in R2

 - Premotion to accept comment resolutions in R2 of document

 -- Y: 8 N: 0 A: 0

 -- Passes

Motions for updates to draft text

 - Move to adopt comment resolutions in 11-16/480r0

 -- Moved by Eugene Baik (Qualcomm)

 -- Seconded by Matthew Fischer (Broadcom)

 -- Y: 8 N:0 A: 0

 -- Passes

 - Move to adopt comment resolutions in 11-16/453r2

 -- Moved by Daewon Lee (NEWRACOM)

 -- Seconded by Bin Tian (Qualcomm)

 -- Y: 7 N: 0 A: 1

 -- Passes

 - Move to instruct Editor to generate D6.1 based on motions passed in March F2F

 -- Moved by Matt

 -- Seconded by Eugene

 -- Y: 8 N: 0 A: 0

 -- Passes

- Motion to instruct editor to prepare D7.0 and approve 15 day sponsor recirc ballot asking whether D7.0 be forwarded to RevCom

 -- Moved by Daewon

 -- Seconded by Eugene

 -- Y: 8 N: 0 A: 0

 -- Passes

Conference call plan to have weekly conf. calls from 3/22 to 7/19 (Tuesdays 8pm ET)

 - No objections to continue with current conf call schedule

Timeline Review

 - EC Approval target July 2016

 - Revcom Approval target July 2016

All agenda items covered, TGah is adjourned.