

TGax January 2017 Meeting Agenda

Date: 2016-12-10

Authors:

Name	Company	Address	Phone	email
Osama Aboul-Magd	Huawei Technologies	303 Terry Fox Drive Kanata, ONT, Canada K2K-3J1	613-287-1405	Osama.aboulmagd@Huawei.com

IEEE 802.11 TGax: High Efficiency WLAN Task Group

Atlanta, USA

January 15-20, 2017

Chair: Osama Aboul-Magd (Huawei Technologies)

Vice Chair: Simone Merlin (Qualcomm)

Vice Chair: Ron Porat (Broadcom)

Secretary: Yasuhiko Inoue (NTT)

Technical Editor: Robert Stacey (Intel)

Meeting Protocol

- **Please announce your affiliation when you first address the group during a meeting slot**

Attendance

- <http://newton.meeting.verilan.com>

1. Register
2. Indicate attendance

Attendance, Voting & Document Status

- **Make sure your badges are correct**
- **If you plan to make a submission be sure it does not contain company logos or advertising**
- **Questions on Voting status, Ballot pool, Access to Reflector, Documentation, member' s area**
 - see Jon Rosdahl – jrosdahl@ieee.org
- **Cell Phones Silent or Off**

Patent Policy

- **Following 5 slides**

Instructions for the WG Chair

The IEEE-SA strongly recommends that at each WG meeting the chair or a designee:

- Show slides #1 through #4 of this presentation
- Advise the WG attendees that:
 - The IEEE’s patent policy is described in Clause 6 of the *IEEE-SA Standards Board Bylaws*;
 - Early identification of patent claims which January be essential for the use of standards under development is strongly encouraged;
 - There January be Essential Patent Claims of which the IEEE is not aware. Additionally, neither the IEEE, the WG, nor the WG chair can ensure the accuracy or completeness of any assurance or whether any such assurance is, in fact, of a Patent Claim that is essential for the use of the standard under development.
- **Instruct the WG Secretary to record in the minutes of the relevant WG meeting:**
 - That the foregoing information was provided and that slides 1 through 4 (and this slide 0, if applicable) were shown;
 - That the chair or designee provided an opportunity for participants to identify patent claim(s)/patent application claim(s) and/or the holder of patent claim(s)/patent application claim(s) of which the participant is personally aware and that January be essential for the use of that standard
 - Any responses that were given, specifically the patent claim(s)/patent application claim(s) and/or the holder of the patent claim(s)/patent application claim(s) that were identified (if any) and by whom.
- The WG Chair shall ensure that a request is made to any identified holders of potential essential patent claim(s) to complete and submit a Letter of Assurance.
- It is recommended that the WG chair review the guidance in *IEEE-SA Standards Board Operations Manual* 6.3.5 and in FAQs 14 and 15 on inclusion of potential Essential Patent Claims by incorporation or by reference.

Note: **WG** includes Working Groups, Task Groups, and other standards-developing committees with a PAR approved by the IEEE-SA Standards Board.

Participants, Patents, and Duty to Inform

All participants in this meeting have certain obligations under the IEEE-SA Patent Policy.

- Participants [Note: Quoted text excerpted from IEEE-SA Standards Board Bylaws subclause 6.2]:
 - “Shall inform the IEEE (or cause the IEEE to be informed)” of the identity of each “holder of any potential Essential Patent Claims of which they are personally aware” if the claims are owned or controlled by the participant or the entity the participant is from, employed by, or otherwise represents
 - “Should inform the IEEE (or cause the IEEE to be informed)” of the identity of “any other holders of potential Essential Patent Claims” (that is, third parties that are not affiliated with the participant, with the participant’s employer, or with anyone else that the participant is from or otherwise represents)
- The above does not apply if the patent claim is already the subject of an Accepted Letter of Assurance that applies to the proposed standard(s) under consideration by this group
- Early identification of holders of potential Essential Patent Claims is strongly encouraged
- No duty to perform a patent search

Patent Related Links

All participants should be familiar with their obligations under the IEEE-SA Policies & Procedures for standards development.

Patent Policy is stated in these sources:

IEEE-SA Standards Boards Bylaws

<http://standards.ieee.org/develop/policies/bylaws/sect6-7.html#6>

IEEE-SA Standards Board Operations Manual

<http://standards.ieee.org/develop/policies/opman/sect6.html#6.3>

Material about the patent policy is available at

<http://standards.ieee.org/about/sasb/patcom/materials.html>

If you have questions, contact the IEEE-SA Standards Board Patent Committee Administrator at patcom@ieee.org or visit <http://standards.ieee.org/about/sasb/patcom/index.html>

This slide set is available at
<https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.ppt>

Call for Potentially Essential Patents

- **If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance:**
 - Either speak up now or
 - Provide the chair of this group with the identity of the holder(s) of any and all such claims as soon as possible or
 - Cause an LOA to be submitted

Other Guidelines for IEEE WG Meetings

- **All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.**
- **Don't discuss the interpretation, validity, or essentiality of patents/patent claims.**
- **Don't discuss specific license rates, terms, or conditions.**
 - Relative costs, including licensing costs of essential patent claims, of different technical approaches January be discussed in standards development meetings.
 - Technical considerations remain primary focus
- **Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.**
- **Don't discuss the status or substance of ongoing or threatened litigation.**
- **Don't be silent if inappropriate topics are discussed ... do formally object.**

See *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and "Promoting Competition and Innovation: What You Need to Know about the IEEE Standards Association's Antitrust and Competition Policy" for more details.

Participation in IEEE 802 Meetings

- All participation in IEEE 802 Working Group meetings is on an individual basis
- *Participants in the IEEE standards development individual process shall act based on their qualifications and experience. (https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1)*
- *IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (http://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf section 4.2.1)*
- You have an obligation to act and vote as an individual and not under the direction of any other individual or group. Your obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.
- You shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and http://ieee802.org/PNP/approved/IEEE_802_WG_PandP_v19.pdf section 3.4.1, list item x

By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

Agenda Items for the Week

- **Approve TG and Telecons minutes since November 2016 meeting.**
- **Comment resolution on draft D1.0**
- **Schedule TG ad hoc meeting(s)**
- **Schedule Telecon times.**

General Flow of the Meeting

- **Monday January 16, 10:30 – 12:30**
 - Call Ad Hoc Meeting to order
 - IEEE 802 and 802.11 IPR Policy and procedure.
 - Call for submissions
 - AD hoc meeting Agenda setting
 - Approval of ad hoc meeting agenda
 - Presentations
 - Recess
- **Monday January 16, 16:00 – 18:00**
 - Ad Hoc Group Meetings
- **Tuesday January 17, 10:30 – 12:30**
 - Ad Hoc Group Meetings
- **Tuesday January 17, 16:00 – 18:00**
 - Ad Hoc Group Meetings
- **Wednesday January 18, 08:00 – 10:00**
 - Call Meeting to order
 - IEEE 802 and 802.11 IPR Policy and procedure.
 - Progress Review
 - Presentations
 - Recess
- **Wednesday January 18, 13:30 – 15:30**
 - Ad Hoc Group Meetings
- **Wednesday January 18, 16:00 – 18:00**
 - Ad Hoc Group Meetings
- **Thursday January 19, 13:30 – 15:30**
 - Call Meeting to order
 - IEEE 802 and 802.11 IPR Policy and procedure.
 - Presentations
 - TG Motions
 - Recess
- **Thursday January 19, 16:00 – 18:00**
 - Call Meeting to order
 - IEEE 802 and 802.11 IPR Policy and procedure.
 - Presentations
 - TG Motions
 - Goals for November 2016
 - Telecon Schedule
 - Adjourn

	Monday		Tuesday		Wednesday	Thursday
AM1					TGax	
AM2	TGax		PHY	MAC		
PM1					TGax	TGax
PM2	PHY	MAC	PHY	MAC	TGax	TGax
EVE						

*** Ad Hoc group is tbd**

Agenda for Monday January 16, 10:30 – 13:30

- **Call meeting to order**
- **Patent policy, etc.**
- **Call for submissions**
- **Set Ad Hoc Groups schedule and approve agenda**
- **Summary from November 2016 meeting**
- **Results of WG LB #225**
- **TG motions**
 - Approve TG meeting and Telecon minutes since November meeting.
 - Approve resolutions of comments, if needed.
- **Timeline**
- **Ad hoc group chair vacancies**
- **Ad Hoc Meeting before March IEEE 802 meeting**
- **Editor Report and Comment Assignment – Robert Stacey**
 - Including missed comments
- **Presentations and Comment Resolution**
 - Simulation related submissions

Submissions (PHY)

DCN	Title	Author	Group
11-17/0044	NDP Feedback Report Design	Ron Porat	PHY
11-17/0047	1b225-cr-28_4_3	Yongho Seok	PHY
11-17/0056	CR HE PHY Capabilities_Part_1	Lochan Verma	PHY
11-17/0060	comment resolution for the CCA of preamble puncturing	Yunbo Li	PHY
11-17/0072	CID 6124 Resolution: Remove 2x LTF+08.us GI for UL Transmission	Jianhan Liu	PHY
11-17/0077	Proposed changes to Draft 1.0	Xiaogang Chen	PHY
11-17/0078	RBW of 11ax	Xiaogang Chen	PHY
11-17/0110	Discussions on Signaling for UL HE MU PPDU	John Son	PHY
11-17/0112	Link Transmit Power	Matthew Fischer	PHY
11-17/0113	Steering Vector Sanctity	Matthew Fischer	PHY
11-17/0114	CID-Trigger frame_Part-1	Lochan Verma	PHY

Submissions (MAC)

DCN	Title	Author	Group
11-17/0037	Comment resolution for clause 10.28	Jarkko Knecht	MAC
11-17/0045	1b225-cr-27_11_4	Yongho Seok	MAC
11-17/0046	1b225-cr-27_6_4	Yongho Seok	MAC
11-17/0073	CR for 27.5.2.7 NDP feedback report	Laurent Cariou	MAC
11-17/0074	Explanations for CR on 27.5.2.7	Laurent Cariou	MAC
11-17/0082	comment resolution for subclause 11.2.2.8	Kaiying Lv	MAC
11-17/0085	CR for 9.2.5.2 and 9.2.5.7	Po-Kai Huang	MAC
11-17/0088	CR on 10.22.2.8 TXOP limits	Woojin Ahn	MAC
11-17/0089	Discussion for CR on 10.22.2.8 TXOP limits	Woojin Ahn	MAC
11-17/0104	Discussion on CR for CID 5066	Dengyu Qiao	MAC
11-17/0115	Comment resolution to clause 27.8	Jarkko Knecht	MAC
11-17/xxxx		Matthew Fischer	MAC
11-17/yyyy		Matthew Fischer	MAC
11-17/zzzz		Matthew Fischer	MAC

Submission (TG)

DCN	Title	Author	Group
11-16/0947	Proposed text changes for OBSS_PD-based SR parameters	Matthew Fischer	TG
11-16/1063	Unified SR text DSC, ATPC, inter-BSS	Graham Smith	TG
11-16/1362	PAR Verification Through OFDMA	Suhwook Kim	TG
11-16/1476	CR-for section-25-9-spatial-reuse-operation-for-HE-PPDU	Matthew Fischer	TG
11-16/1567	Proposal for DSC, ATPC, Inter-BSS with Responses to Comments	Graham Smith	TG
11-17/0032	Proposal on Simulation Scenario Document for 11ax PAR verification	Suhwook Kim	TG
11-17/0075	SRP-based SR Summary and Update	James Wang	TG
11-17/0076	Multiple BSS Simulations for PAR Verification	Frank Hsu	TG
11-17/0081	consideration of spatial reuse	Kaiying Lv	TG
		Narendar	
11-17/0090	11ax PAR Verification using UL MU-MIMO	Madhavan	TG
11-17/0095	Proposal on Simulation Scenario Document for 11ax PAR verification(doc)	Suhwook Kim	TG
11-17/0099	Additional background for CID 8908	Sigurd Schelstraete	TG
11-17/0102	LB225 comments on Spatial Reuse	Sean Coffey	TG

Summary from November 2016 Meeting

- The TG completed the resolution of comments submitted during CC 23.
- The TG approved draft D1.0.
- A WG LB closed on January 8
- The TG held 3 telecons since November 2016
 - One telecon (December 15) was dedicated to system level simulations
 - Two telecons (January 10 and January 12) were dedicated to comment assignment.

Result of WG LB #225

Ballot Number:	225
Ballot Group:	TGax
Ballot Opened:	2016-12-01
Ballot Closed:	2017-01-08
Duration of ballot (days):	38
Pool (eligible voters):	371
Votes Received	
Approve	145
Disapprove	106
Disapprove without comment (invalid)	4
Abstain	25
Total returns	280
Returns as % of pool:	75.47
Return requirement:	> 50%
Is number of returns sufficient?	The >50% return requirement has been met
Abstains as % of returns:	8.93
Abstain requirement:	< 30%
Is number of abstains sufficiently small?	The 30% abstain requirement has been met
Approval rate as % of valid returns:	57.77
Approval requirement:	>= 75%
Is number of approve votes sufficient?	The 75% approval requirement has not been met
Result:	Motion fails
Number of comments received:	7334

Approval of TG Minutes (November 2016 Meeting and Telecon Minutes)

- Approve TGax minutes of meetings and teleconferences from November 2016 plenary meeting to today:
 - <https://mentor.ieee.org/802.11/dcn/16/11-16-1466-01-00ax-tgax-november-2016-san-antonio-meeting-minutes.docx>
 - <https://mentor.ieee.org/802.11/dcn/16/11-16-1607-03-00ax-tgax-teleconferences-minutes-from-dec-2016-to-jan-2017.docx>
 - <https://mentor.ieee.org/802.11/dcn/16/11-16-1569-00-00ax-november-2016-tgax-spatial-reuse-ad-hoc-group-meeting-minutes.docx>
 - <https://mentor.ieee.org/802.11/dcn/16/11-16-1480-01-00ax-tgax-mac-ad-hoc-november-2016-meeting-minutes.docx>
 - <https://mentor.ieee.org/802.11/dcn/16/11-16-1530-00-00ax-november-2016-tgax-phy-ad-hoc-minutes.docx>
 - <https://mentor.ieee.org/802.11/dcn/16/11-16-1520-00-00ax-mu-ad-hoc-meeting-minutes-november-2016.docx>

• **Move: Robert Stacey** **Second: Alfred**

• **Accepted with no objection**

Submission

Slide 22

Osama Aboul-Magd (Huawei Technologies)

Timeline

- **May 2014:** start of the TG
- **Nov. 2014:** First draft of the TG SFD was approved
- **Jan. 2016:** proposed TG draft
- **March 2016:** Draft D0.1 was approved and CC started
- **November 2016:** Draft 1.0 and WG letter ballot
- **May 2017:** Draft 2.0 and recirculation
- **November 2017:** MDR (Mandatory Document Review)
- **January 2018:** Formation of SB pool
- **March 2018:** Sponsor Ballot
- **December 2018:** RevCom

Ad Hoc Chair Vacancies

MAC	PHY	MU	Spatial Reuse
Eric Wong (Apple)	Bo Sun (ZTE)	Sigurd Schelstraete (QAT)	Laurent Cariou Intel
Reza Hedayat (NEWRACOM)	Jianhan Liu (MTK)	Kiseon Ryu (LG)	Guido Hiertz (Ericsson)
OPEN Chao-Chun Wang	Hongyuan Zhang (MRVL)	OPEN David (Xun) Yang	Jae Seung Lee (ETRI)

TG Add Hoc Meeting

- **Ad hoc meetings are required to speed up the comment resolution.**
- **Two options**
 - Any volunteer to host the meeting
 - Have an ad hoc meeting on Wed, Thu, and Fri before the IEEE 802.11 March meeting in the same hotel
 - Need to contact Jon Rosdahl for arrangement and coordination
 - Likely there will be a registration fee.

Straw Polls

- **2-day meeting - 8**
- **3-day meeting - 8**
- **Monthly meeting – alternating with the IEEE meeting – 14**
- **Before the IEEE 802 meeting – more than 14**
- **Who will attend the meeting - 30**

Motion

- **Move to include comments in doc 11-17/0106r0 in the comment spread sheet 11-17/0010r4 and generate new revision**
- **Move; Kome Oteri Second: Robert Stacey**
- **Approved with no objection**

Editor Report and Comment Assignment

- Robert Stacey

Agenda for Monday January 16, 16:00 – 18:00

- **Ad Hoc Meetings**
 - PHY: Ballroom I
 - MAC : Ballroom II

Agenda for Tuesday January 17, 10:30 – 12:30

- **Ad Hoc Group Meetings**
 - PHY: Ballroom I
 - MAC: Ballroom II

Agenda for Tuesday January 17, 16:00 – 18:00

- **Ad Hoc Group Meetings**
 - PHY : Ballroom I
 - MAC : Ballroom II

Agenda for Wednesday January 18, 08:00 – 10:00

- **TG Meeting**
- **Call Meeting to order**
- **IEEE 802 and 802.11 IPR Policy and procedure.**
- **Progress from the MAC and the PHY ad hocs**
 - Remaining PHY and MAC submissions related to comment resolution
- **SR Presentations**
 - 11-17/00102 (<= 30 min)
 - 11-17/0099 (<= 30 min)
 - 11-17/0075 and 11-16/1476 (<= 60 min)
- **Recess**

Agenda for Wednesday January 18, 13:30 – 15:30

- **TG Meeting**
- **Call Meeting to order**
- **IEEE 802 and 802.11 IPR Policy and procedure.**
- **SR discussion (continue)**
 - 11-16/1567 and 11-16/1063 (≤ 60 min)
 - 11-16/0947 (≤ 60 min)
 - PAR Verification Submissions

SP (11-16/0947R20)

- **Do you accept to resolve CID 8111 as revise, make the changes to D1.0 as shown in doc 11-16/0947r20?**
- **Y: 26**
- **N: 2**
- **ABS: 19**

SP

- **Do you accept resolutions to CIDs 5059, 5324, 7259, 8336, 8532, 9483, 9828, 7677, 9482 in doc 11-17/0156r2?**
- **SP accepted**

SP

- **Do you accept resolutions to CIDs 3375, 3480, 3808, 3893, 4349, 4417, 5820 in doc 131r0?**
- **SP accepted**

Agenda for Wednesday January 18, 16:00 – 18:00

- **TG Meeting**
- **Call Meeting to order**
- **IEEE 802 and 802.11 IPR Policy and procedure.**
- **11-17/0081 – Spatial Reuse (30 minutes)**
- **CR SP**
- **PAR verification Presentations**
- **CR Submissions**

SP

- **Do you agree to resolutions of CIDs, 5475, 5388, 5734, 5213, 5477, 8240, 7604, 10291, 5479, 9953, 7168 in doc 11-17/0045r4?**
- **SP accepted**

SP

- **Do you agree to resolutions to CIDs CIDs: 8501, 8717, 8718, 8719, 9086, 9604, 9930, 10071 in doc 11-17/0046r1?**
- **Accepted with no objection**

Agenda for Thursday January 15, PM1 and PM2

- **TG Meeting**
- **Call Meeting to order**
- **IEEE 802 and 802.11 IPR Policy and procedure.**
- **Ad Hoc Meeting**
- **Conference Call Schedule**
- **SP on Simulation Scenarios document (Suhwook Kim)**
- **TG Motion**
- **Comment Resolution Submissions and motions**
 - 11-17/0115
 - 11-17/0134
 - 11-17/0135
 - 11-17/0137
 - 11-17/0148
 - 11-17/0132
 - 11-17/0173

Motions

CR Motion #133

- Move to accept resolutions to CIDs; 3315, 3394, 3661, 3750, 4133, 4234, 10311 in doc 11-17/0047r1.
- Move: Young Hoon Kwon Reza Hedyat
- Approved with no objection

CR Motion #135

- **Move to accept resolutions to CIDs, 7684 and 7685 in doc 11-17/0056r1**
- **Move: Bin Tian Second: Abhishek**
- **Accepted with no objection**

CR Motion #136

- **Move to accept the resolution to CID 9773 in doc 11-17/0114r1.**
- **Move: Bin Tian Second: Abhishek**
- **Qccepted with no obejction**

CR Motion #137

- **Move to accept resolutions to CIDs; 6125, 6193, 7037, 7248, 9418, 10162 and 10178 in doc 11-17/0060r3**
- **Move: Yunbo Li Second: Lei Wang**
- **Accepted with no objection**

CR Motion #138

- **Move to accept the resolution of CID 6541 in doc 11-17/0037r0**
- **Move: Jarkko Knecht Second: Alfred**
- **Accepted with no objection**

CR Motion #139

- **Move to accept resolutions to CIDs, 5448, 5449, 7724, 7905, 8251, 8340, 9813 in doc 11-17/0085r1**
- **Move: Po-Kai Huang Second: Reza Hedayat**
- **Accepted with no objection**

CR Motion #140

- **Move to accept resolutions to CIDs; 5059, 5324, 7259, 8336, 8532, 9483, 9828, 7677, 9482 in doc 11-17/0156r2**
- **Move: Alfred Asterjadhi Second: Abhishek**
- **Accepted with no objection**

CR Motion #141

- **Move to accept resolutions to CIDs 3375, 3480, 3808, 3893, 4349, 4417, 5820 in doc 11-17/0131r0.**
- **Move: Alfred Asterjadhi Second:Abhishek**
- **Accepted with no objection**

CR Motion #142

- **Move to accept to resolve CID 8111 as revise, make the changes to D1.0 as shown in doc 11-16/0947r21**
- **Move: Matt Fischer Second: Alfred**
- **Y = 45**
- **N = 0**
- **A = 31**
- **Motion passes**

CR Motion #143

- **Move to accept resolutions to CIDs; 3077, 3218, 4783, 5196, 5197, 6192, 7023, 7024, 7025, 7026, 7027, 7507, 7615, 7890, 7970, 9592, 3217, 3219, 3220, 3221, 5198, 5199, 5679, 5946, 6013, 6015, 6016, 6017, 6157, 6158, 6190, 7028, 7029, 7030, 7031, 7202, 7247, 7614, 7616, 8085, 8720, 9409, 9725, 9726 and 9939**
- **in doc 11-17/0115r7**
- **Move: Jarkko Knecht Second: Kiseon Ryu**
- **Accepted with no objection**

CR Motion #144

- **Move to accept resolutions to CIDs: 8501, 8717, 8718, 8719, 9086, 9604, 9930, 10071 in doc 11-17/0046r1?**
- **Move: Yongho Seok Second Abhishek**
- **Accepted with no objection.**

CR Motion #145

- **Move to accept resolutions to CIDs; 3035, 4771, 7998, 9674, 9338, 3034, 5923, 5924, 8261, 3036, 3177, 4772, 5331, 5551, 6062, 7561, 8134, 8259, 8400, 8683, 9337, 9510, 9663, 9845, 5214, 5909, 6437, 6439, 6441, 6442, 6443, 6447, 4775, 6452, 6458, 9673, 5910, 7996, 4774, 5922, 7995, 9757, 6551 in doc 11-17/0135r6**
- **Move: Abhishek Second: Bin Tian**
- **Accepted with no objection**

CR Motion #146

- **Move to accept resolution of CID 6124 in doc 11-17/0072r2.**
- **Move: Bin Tian Second: Bo Sun**
- **Accepted with no objection**

CR Motion #147

- **Move to accept resolutions to CIDs, 5475, 5388, 5734, 5213, 5477, 8240, 7604, 10291, 5479, 9953, 7168 in doc 11-17/0045r6**
- **Move: Yongho Seok Second: Reza Hedayat**
- **Accepted with no objection**

CR Motion #148

- **Move to accept resolutions to CIDs; 3037, 7060, 9676, 5400, 5405, 6320, 3179, 5844, 7776 in doc 11-17/0137r2**
- **Move: Abhishek Patil Second: Yasu Inoue**
- **Accepted with no objection**

CR Motion #149

- **Move to accept resolutions to CIDs;**
 - 5881
 - 4723, 4724, 5433, 6253, 7709, 8174, 8590, 9985, 9986
 - 5434, 5435, 5821, 6256, 7710, 7711, 7712, 7866, 7868, 7869
 - 5446, 5447, 7721
 - 7758, 7920, 7921, 8137, 9661, 9662
- **In doc 11-17/0132r0**
- **Move: Alfred Second: Bin Tian**
- **Accepted with no objection**

CR Motion #150

- **Move to accept resolutions to CIDs; 3151, 3152, 4721, 5819, 6249, 6252, 7392, 7708, 8367, 8368, 8642, 9355, 9618, 7298 in doc 11-17/0148r1**
- Move: Alfred Second: Abhishek Patil
- Accepted with no objection

CR Motion #151

- **Move to accept resolutions to CIDs; 5409, 5412, 6194, 7032, 7033, 9770 in doc 11-17/0173r0**
- **Move: John Son Second: Bin Tian**
- **Accepted with no objection**

TG ad hoc Meeting

- Authorize TGax to hold an ad-hoc meeting on March 8-10 in San Diego, for the purpose of comment resolution.
-
- [Moved by <name> on behalf of <group>
- <group> vote:
- Moved: Bin Tian, Seconded: Yasu Inoue, Result: 55-0-11]
- Motion passes

Conference call times

- **February 2, 23, March 30 10:00 – 12:00 ET**
- **February 16, March 2, 23, April 6 20:00 – 22:00 ET**