IEEE P802.11
Wireless LANs

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| IEEE 802.11 Task Group AYSeptember 2016 Warsaw Meeting Minutes |
| Date: 2016-09-11 |
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Abstract

Task Group AY meeting minutes from the IEEE 802.11 Warsaw session, September 11-16, 2016.

**IEEE 802.11 Task Group AY**

**September 2016 Warsaw Meeting**

**September 11-16, 2016**

**Monday, September 12, 2016, AM2 Session (10:30-12:30)**

1. The IEEE 802.11ay task group meeting was called to order at 10:30 by the Chair, Edward Au (Huawei).
2. Chair introduced himself and secretary, Jeorge Hurtarte (Teradyne).
3. Agenda Doc. IEEE 802.11-16/1079r1.
4. Chair reviewed the IEEE-SA patent policy, logistics, and reminders on Task Group rules, including meeting guidelines and attendance recording procedures.
	1. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
	2. Chair asked if anybody has any disclosures related to the patent policy. None.
	3. Chair asked if there were any questions on any of the above items. None.
	4. Chair reminded all to record their attendance.
	5. Chair reminded all to upload their presentations.
5. Chair introduced the leadership of the Task Group (slide 11).
6. Chair reviewed the meeting time slots, locations and agenda items for the week (see slides 12-13 of the agenda document).
7. Chair proceeded to discuss the agenda items for the Monday September 12, 2016 AM2 session (slide 15).
8. Chair reviewed the progress of the Task Group AY and related documents (slides 16-17).
9. Motion #87: Motion to approve the July 2016 interim meeting minutes
	1. Move: Edward Au (Huawei)
	2. Second: Carlos Cordeiro (Intel)
	3. No objections noted. Unanimous consent.
	4. The July 2016 San Diego minutes were approved.
10. Chair reviewed Task Group Documents (slide 18).
11. Chair reviewed the list of presentations submitted (slides 19-21) and schedule for presenting those during the week.
	1. Chair asked if there were any additional presentations submissions or changes to the agenda items. None.
12. Chair reviewed the agenda setting for the week (slide 22).
13. Chair reviewed the Vice Chair election procedure (slide 23).
	1. Chair asked if there were additional nominations. None.
	2. Candidate(s): Sang Kim (LG Electronics)
	3. Chair asked if there were any objections to elect Sang Kim as Vice Chair of TG AY. No objections and Sang Kim officially elected as Vice Chair of TG AY.
14. Chair reviewed the selection procedure for contributions (slide 25).
15. Presentations
	1. Presentation by Lei Huang (Panasonic), An Update on Spatial Sharing Enhancement for MIMO Operation, Doc. IEEE 11-16/1132r0. Key points reviewed:
		1. This contribution addresses how EDMG STA reports measurement results after performing concurrent measurements employing multiple RX antenna configuration.
		2. Opened the floor for discussion.
		3. Straw Poll #1. Do you agree to insert the following text into 11ay SFD?: “The EDMG spatial sharing mechanism shall enable an EDMG STA to report the average of the results of concurrent measurements using multiple RX antenna configurations in order to reduce the overhead of the measurement report.”
			1. Yes: 27
			2. No: 0
			3. Abstain: 9
			4. Straw poll passed
	2. Presentation by Katsuo Yunoki (KDDI R&D Laboratories), Relay Enhancement, Doc. IEEE 11-16/1140r0. Key points reviewed:
		1. Relay for range extension is an important feature for mobile offloading scenario.
		2. Some issues should be examined and resolved for 11ay relay applications.
		3. Opened the floor for discussion.
	3. Presentation by Tony Xiao Han (Huawei), Enhanced channel access in A-BFT for 11ay, Doc. IEEE 11-16/1164r0. Key points reviewed:
		1. Considering the dense and/or outdoor environments in 11ay system, an enhanced A-BFT random access scheme is proposed.
		2. In the proposed scheme, we simply extend the SSW slots in A-BFT, providing more resources.
		3. The advantages of the proposed scheme
			1. Backward compatible with legacy 802.11ad
			2. Resources (SSW slots) can be adjusted dynamically for DMG and EDMG STAs
			3. Could extend the resources (SSW slots), hence could reduce the collision when the number of the STAs increases
		4. Opened the floor for discussion.
		5. Straw Poll #1. Do you agree to add the following text into the SFD?: “It shall be possible to insert additional SSW slots in the beacon interval for use by EDMG STAs only. ”
			1. Yes: 33
			2. No: 0
			3. Abstain: 7
			4. Straw poll passed.
		6. Straw Poll #2. Do you agree to add the following text into the SFD?: “The number of additional SSW slots is indicated by reserve bits in the Beacon Interval Control field.”
			1. Yes: 33
			2. No: 0
			3. Abstain: 6
			4. Straw poll passed.
	4. Presentation by Kome Oteri (InterDigital), Multi-Stage, Multi-Resolution Beamforming Training for 802.11ay, Doc. IEEE 11-16/1175r0. Key points reviewed:
		1. Multi-stage Multi-resolution BFT offers improvements in BF training efficiency and beam tracking for high resolution beams.
		2. Signaling should be added to 802.11ay to indicate the capability to perform multi-stage, multi-resolution beam tracking and to signal information such as the maximum and current beam resolutions
		3. Opened the floor for discussion.
			1. Straw Poll #1. Do you agree to add the following text into the 802.11ay SFD?: “11ay shall support multi-stage, multi-resolution beamforming training as part of the beamforming training procedure.”
			2. Yes: 3
			3. No: 13
			4. Abstain: many
			5. Straw poll did not pass.
	5. Presentation by Weimin Xing (ZTE Corp.), Duplicated control mode PPDU for 11ay, Doc. IEEE 11-16/1146r1. Key points reviewed:
		1. 2.16GHz duplicated transmission on multiple channel is discussed.
		2. Proposing the following changes to the SFD:
			1. Define a 2.16GHz duplicated mode for DMG control mode.
			2. Using the Dynamic bandwidth operation in 11ay.
			3. Some change to control trailer field or other field in RTS/DMG CTS.
			4. Add one bit for Dynamic/static indication in RTS/DMG CTS frame, it can be in control trailer, frame control, TA or other field.
			5. Add a 16 bits CRC checking sequence in control trailer.
			6. Explain the meaning of the channel aggregation field in control trailer.
		3. Opened the floor for discussion.
			1. Straw Poll #1. Do you agree to add the following text to the SFD? “A 2.16GHz duplicated mode shall be included in the 11ay specification”
				1. Yes: 24
				2. No: 0
				3. Abstain: 8
				4. Straw poll passed.
			2. Straw Poll #2. Do you agree to add to the SFD?: ”16 bits “CRC” field is added in control trailer field”
				1. Yes:7
				2. No: 2
				3. Abstain: many
				4. Straw poll passed.
			3. Straw Poll #3. Do you agree to add to the SFD? “If the Channel Aggregation subfield is carried in a control trailer field, it’s meaning the channel aggregation/bonding mode of the transmission following the completion of RTS/DMG CTS that carried the control trailer field.”
				1. Yes: 2
				2. No: 10
				3. Abstain: many
				4. Straw poll did not pass.
16. Meeting recessed at 12:35 and will resume on Tuesday AM2.

**Tuesday, September 13, 2016, AM2 Session (10:30-12:30)**

1. The meeting was called to order at 10:30 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-16/1079r2.
3. Chair reviewed the IEEE-SA patent policy, logistics, email reflector logistics, and reminders on Task Group rules.
	1. Chair asked if anybody has any disclosures related to the patent policy.
	2. Chair asked if anyone has any questions about the IEEE-SA patent policy, logistics or reminders. No questions.
	3. Chair reminded all to record their attendance.
4. Presentations
	1. Presentation by Li-Hsiang Sun (Interdigital), GI Overhead/Performance Impact on Open-Loop SU-MIMO, Doc. IEEE 11-16/1172r1. Key points reviewed:
		1. EDMG preamble adds additional overheads in a PPDU
			1. Short EDMG frame with high MCS is not efficient
		2. Using GI length of 32 symbols is sufficient for some of the indoor scenarios.
			1. (32 GI, 480 data) block for 2.16GHz channel should be considered as an option.
		3. Opened the floor for discussion.
		4. Straw Poll #1. Should TGay study the option of shorter GI for SC PHY?
			1. Yes: 30
			2. No: 0
			3. Abstain: 5
			4. Straw poll passed.
	2. Presentation by Kerstin Johnsson (Intel), Scalable A-BFT, Doc. IEEE 11-16/1165r3. Key points reviewed:
		1. Proposed schemes provide additional SSW slots for 11ay use cases with dense deployments
		2. Compared to previous proposals, these schemes:
			1. Provide greater flexibility in the number of additional SSW slots
			2. Require fewer control bits
			3. Maximize trunking efficiency
			4. Maintain some level of fair access between EDMG and DMG STAs
		3. Opened the floor for discussion.
		4. Straw Poll #1. Would you agree to include the following in the SFD?: “The number of additional SSW slots in the beacon interval, for use by EDMG STAs only, shall be equal to the value of A-BFT Length multiplied by Multiplier, where the Multiplier is indicated using reserve bits from the Beacon Interval Control field.”
			1. Yes: 29
			2. No: 0
			3. Abstain: 5
			4. Straw poll passed.
		5. Straw Poll #2. Where would you prefer to insert additional SSW slots for use by EDMG STAs only?
			1. Option 1:  Just before the legacy A-BFT (requires adjusting Duration field, works with CBAP only = 1, fairness is automatic)
			2. Option 2:  Just after the legacy A-BFT (requires Extended Scheduling Element or prohibited use when CBAP only = 1, fairness requires 1 beacon interval delay for EDMG STAs)
			3. Option 1: 16
			4. Option 2: 7
			5. Abstain: 7
	3. Presentation by Alexander Maltsev (Intel), Hotel lobby SU-MIMO channel modeling: 2x2 golden set generation, Doc. IEEE 11-16/1209r0. Key points reviewed:
		1. A methodology for generation of 2x2 SU-MIMO channel realizations golden set for LLS and SLS simulations was proposed
		2. The reduced complexity beam selection procedure for 2x2 MIMO channel generation was investigated
		3. The CIRs golden set for Hotel lobby scenario 2x2 MIMO was generated and analyzed for LOS and NLOS cases
		4. SLS simulations have shown that generated CIRs have a good spatial separation and 2x2 MIMO scheme outperforms SISO scheme for considered cases
		5. Opened the floor for discussion.
	4. Presentation by Alexander Maltsev (Intel), Channel models for IEEE 802 11ay, Doc. IEEE 11-16/1150r7. Key points reviewed:
		1. Minor fixes in references and Q-D model parameters
		2. Opened the floor for discussion.
	5. Presentation by Yingpei Lin (Huawei), Scheduling Allocation on Multi-channels in 11ay, Doc. IEEE 11-16/1208r0. Key points reviewed:
		1. A new EDMG Extended Schedule Element is introduced to support the scheduling allocation of multiple channels for EDMG STAs.
		2. A channel allocation field is defined in EDMG Extended Schedule Element as the incremental signaling to the DMG Extended Schedule element for the scheduling over more than one channel.
		3. The indication of the channel allocation defined in EDMG-Header-A can be reused for indicating the scheduling over more than one channel.
		4. Opened the floor for discussion.
		5. Straw Poll #1. Do you agree to add the following text into the SFD?: “An EDMG Extended Schedule element shall be defined to include incremental signaling to the DMG Extended Schedule element, including channel allocation indications if allocations are scheduled over more than one channel and the Allocation ID field shall be used to correlate the information across the DMG Extended Schedule element and EDMG Extended Schedule element.”
			1. Yes: 20
			2. No: 0
			3. Abstain: 12
			4. Straw poll passed.
		6. Straw Poll #2. Do you agree to add the following text into the SFD?: “A channel allocation field in the EDMG Extended Schedule element shall be defined to indicate the channel allocation for SP and CBAP in 11ay.”
			1. Yes: 19
			2. No: 0
			3. Abstain: 10
			4. Straw poll passed.
		7. Straw Poll #3. Do you agree to add the following text into the SFD?: “The channel allocation field in the EDMG Extended Schedule element shall reuse the indication in EDMG-Header-A with 9 bits to indicate the channel aggregation and BW.”
			1. Yes: 11
			2. No: 1
			3. Abstain: 20
			4. Straw poll passed.
	6. Presentation by Artyom Lomayev (Intel), SC PHY EDMG-CEF Design for Channel Bonding x3, Doc. IEEE 11-16/1207r0. Key points reviewed:
		1. This presentation proposes EDMG-CEF field design for SC PHY in case of three channels bonding for SISO and MIMO transmission.
		2. Opened the floor for discussion.
		3. Straw Poll #1. Do you agree to add the following text into the SFD?: “11ay specification shall define the Golay sequences of length 384 for EDMG-CEF to support CB=3 defined in 11-16-1207-00-00ay on slides 5, 6, and 11 using the EDMG-CEF structure defined in the SFD.”
			1. Yes: 23
			2. No: 0
			3. Abstain: 8
			4. Straw poll passed.
5. Meeting recessed at 12:32 and will resume on Wednesday AM1.

**Wednesday, September 14, 2016, AM1 Session (08:00-10:00)**

1. The meeting was called to order at 08:00 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-16/1079r4.
3. Chair reminded all about the IEEE-SA patent policy, logistics, and reminders on Task Group rules.
	1. Chair asked if anybody has any disclosures related to the patent policy. None.
	2. Chair reminded all to record their attendance.
4. Motion #88: Move to adopt document revision IEEE 11-16/1150r7, Channel models for IEEE 802 11ay as the baseline document for the Channel Model Document

<https://mentor.ieee.org/802.11/dcn/15/11-15-1150-07-00ay-channel-models-for-ieee-802-11ay.docx>

* 1. Move: Alexander Maltsev
	2. Second: Yan Xin
	3. Results: Yes: 23, No: 0, Abstain: 0
	4. Motion passed.
1. Presentation by Yan Xin (Huawei Technologies), Outdoor measurement for the rooftop to street scenario at 60GHz, Doc. IEEE 11-16/1221r0. Key points reviewed:
	1. In this presentation, the characterization of a rooftop to street scenario in a street canyon configuration is presented. The authors also show that transmission in the 60GHz band works for distances of about 100m and multi bounce
	2. The goal of this measurement campaign and analysis is to obtain parameters for outdoor scenarios for the 802.11ay channel model
	3. The measurement can thus be used as a basis for calibration of a ray tracer and also for modeling of clusters for channel modeling
	4. Opened the floor for discussion.
2. Presentation by Solomon Trainin (Intel), EDMG link access of bonded channels, Doc. IEEE 11-16/1214r0. Key points reviewed
	1. The purpose of this presentation is to provide more MAC specific details in relation to CBAP in multiple channels
	2. Floor opened for discussion
	3. Straw Poll #1: Do you agree to insert the following sentence in section 3.1.2 of the SFD?: "A TXOP responder shall be able to receive a frame sent on a channel that does not include all secondary channel(s)“
		* + Yes: 26
			+ No: 0
			+ Abstain: 4
			+ Straw poll passed
	4. Straw Poll #2: Do you agree to insert the following sentence in section 3.1.2 of the SFD?: "Multiple channel access in the DTI shall include the primary channel if the CBAP Only subfield in the DMG Parameters field is set to 1"
		* Yes: 22
		* No: 0
		* Abstain: 7
		* Straw poll passed
	5. Straw Poll #3: Do you agree to insert the following sentence in section 3.1.2 of the SFD?: "Multiple channel access in the DTI shall include the primary channel if both source and destination AID fields of an allocated CBAP are equal to broadcast"
		* Yes: 22
		* No: 0
		* Abstain: 11
		* Straw poll passed
	6. Straw Poll #4: Do you agree to insert the following sentence in section 3.1.2 of the SFD?: "At least CCA of energy detection shall be performed on each non-primary channel“
		* Yes: 26
		* No: 0
		* Abstain: 7
		* Straw poll passed
	7. Straw Poll #5: Do you agree to insert the following sentence in section 3.1.2 of the SFD?: "A TXOP initiator shall not use a secondary channel if CCA of the channel is busy and may use the channel otherwise“
		* Yes: 25
		* No: 0
		* Abstain: 4
		* Straw poll passed
3. Presentation by Solomon Trainin (Intel), EDMG dynamic channel BW signaling, Doc. IEEE 11-16/1206r0. Key points reviewed
	1. This presentation provides a solution for BW signaling at TXOP establishment
	2. Floor opened for discussion
	3. Straw Poll #1: Do you support the encoding of bonded channels codes 0-5 as presented in slide 7?
		* Yes: 22
		* No: 0
		* Abstain: 11
		* Straw poll passed
4. Presentation by Solomon Trainin (Intel), EDMG Block Acknowledgement frame format, Doc. IEEE 11-16/1212r1. Key points reviewed
	1. The purpose of this presentation is to provide more details to NG60 BA frame format
	2. Adopt smart idea presented in TGax to have few sizes of bitmap
	3. Unify BA frame format to support Flow control
	4. Support “The size of the Block Ack window bitmap for EDMG STAs shall be 1024 bits.”
	5. Floor opened for discussion
	6. Straw Poll #1: Do you agree to change the following sentence in section 2.2.1 of the SFD: “The length size of the Block Ack window bitmap for EDMG STAs shall be one of 64, 128, 256, 512 or 1024 bits.
		* Yes: 22
		* No: 0
		* Abstain: 10
		* Straw poll passed
	7. Straw Poll #2: Do you agree to insert the following sentence in section 3 of the SFD: “The length of the Block Ack bitmap is determined as a result of the Buffer Size negotiation in the ADDBA Request/Response frame exchange as specified in <slide 7>”
		* Yes: 22
		* No: 0
		* Abstain: 7
		* Straw poll passed
	8. Straw Poll #3: Do you agree to insert the following in section 2.2.1 of the SFD: “EDMG BA format is as defined in <slide 5> and  <slide 6>.”
		* Yes: 22
		* No: 0
		* Abstain: 8
		* Straw poll passed
5. Presentation by Dzevdan Kapetanovic (Ericsson), Uplink Training for DL MU-MIMO, Doc. IEEE 11-16/1264r1. Key points reviewed
	1. Proposing an uplink training procedure for beamforming construction
	2. Pros: Significantly less training overhead, enables superior beamforming
	3. Cons: Possibly calibration assumptions (although verified in practice to work)
	4. Floor opened for discussion
	5. Straw Poll #1: Do you believe the uplink training mechanism presented here is worth considering for further study?
		* Yes: 17
		* No: 0
		* Abstain: 12
		* Straw poll passed
6. Chair asked if there are any additional presentation. None
7. Chair indicated that the session scheduled for Thursday AM1. No objections.
8. Meeting recessed at 10:00 and will resume on Thursday PM2.

**Thursday, September 15, 2016, PM2 Session (16:00-18:00)**

1. The meeting was called to order at 16:00 by the Chair, Edward Au (Huawei).
2. Agenda Doc. IEEE 802.11-16/1079r7.
3. Chair reminded all about the IEEE-SA patent policy, logistics, and reminders on Task Group rules.
	1. Chair asked if anybody has any additional presentations for the meeting. None.
	2. Chair reminded all to record their attendance.
4. Motion #89. Do you agree to add the following text in the SFD?: “The EDMG spatial sharing mechanism shall enable an EDMG STA to report the average of the results of concurrent measurements using multiple RX antenna configurations in order to reduce the overhead of the measurement report”.
	1. Move: Hiroyuki Motozuka
	2. Second: Yingpei Lei
	3. Result: The motion is passed (19 Yes; 0 No; 3 Abstain)
5. Motion #90. Do you agree to add the following text in the SFD?: “It shall be possible to insert additional SSW slots in the beacon interval for use by EDMG STAs only”.
	1. Move: Xiao Han
	2. Second: Yingpei Lin
	3. Result: The motion is passed with unanimous consent

1. Motion #91. Do you agree to add the following text in the SFD?: “The number of additional SSW slots is indicated by reserve bits in the Beacon Interval Control field”.
	1. Move: Xiao Han
	2. Second: Yingpei Lin
	3. Result: The motion is passed with unanimous consent
2. Motion #92. Do you agree to add the following text in the SFD?: “A 2.16GHz duplicated mode shall be included in the 11ay specification”.
	1. Move: Weimin Xing
	2. Second: Ke Yao
	3. Result: The motion is passed with unanimous consent

1. Motion #93. Do you agree to add the following text in the SFD?: “16 bits “CRC” field is added in control trailer field”.
	1. Move: Weimin Xing
	2. Second: Ke Yao
	3. Result: The motion is passed with unanimous consent
2. Motion #94. Do you agree to add the following text in the SFD?: “The number of additional SSW slots in the beacon interval, for use by EDMG STAs only, shall be equal to the value of *A-BFT Length* multiplied by *Multiplier*, where the *Multiplier* is indicated using reserve bits from the Beacon Interval Control field”.
	1. Move: Kerstin Johnsson
	2. Second: Solomon Trainin
	3. Result: The motion is passed with unanimous consent
3. Motion #95. Do you agree to add the following text in the SFD?: “Additional SSW slots for use by EDMG STAs only may be inserted immediately before the legacy A-BFT”.
	1. Move: Kerstin Johnsson
	2. Second: Solomon Trainin
	3. Result: The motion is passed with unanimous consent
4. Motion #96. Do you agree to add the following text in the SFD?: “An EDMG Extended Schedule element shall be defined to include incremental signaling to the DMG Extended Schedule element, including channel allocation indications if allocations are scheduled over more than one channel and the Allocation ID field shall be used to correlate the information across the DMG Extended Schedule element and EDMG Extended Schedule element”.
	1. Move: Yingpei Lin
	2. Second: Xiao Han
	3. Result: The motion is passed with unanimous consent
5. Motion #97. Do you agree to add the following text in the SFD?: “A channel allocation field in the EDMG Extended Schedule element shall be defined to indicate the channel allocation for SP and CBAP in 11ay”.
	1. Move: Yingpei Lin
	2. Second: Xiao Han
	3. Result: The motion is passed with unanimous consent
6. Motion #98. Do you agree to add the following text in the SFD?: “The channel allocation field in the EDMG Extended Schedule element shall reuse the indication in EDMG-Header-A with 9 bits to indicate the channel aggregation and BW”.
	1. Move: Yingpei Lin
	2. Second: Xiao Han
	3. Result: The motion is passed with unanimous consent
7. Motion #99. Do you agree to add the following text in the SFD?: “11ay specification shall define the Golay sequences of length 384 for EDMG-CEF to support CB=3 defined in 11-16-1207-00-00ay on slides 5, 6, and 11 using the EDMG-CEF structure defined in the SFD”.
	1. Move: Artyom Lomayev
	2. Second: George Calcev
	3. Result: The motion is passed with unanimous consent
8. Motion #100. Do you agree to add the following sentence in Section 3.1.2 of the SFD?: “A TXOP responder shall be able to receive a frame sent on a channel that does not include all secondary channel(s)”.
	1. Move: Solomon Trainin
	2. Second: George Calcev
	3. Result: The motion is passed with unanimous consent
9. Motion #101. Do you agree to add the following sentence in Section 3.1.2 of the SFD?: “Multiple channel access in the DTI shall include the primary channel if the CBAP Only subfield in the DMG Parameters field is set to 1”.
	1. Move: Solomon Trainin
	2. Second: George Calcev
	3. Result: The motion is passed with unanimous consent
10. Motion #102. Do you agree to add the following sentence in Section 3.1.2 of the SFD?: “Multiple channel access in the DTI shall include the primary channel if both source and destination AID fields of an allocated CBAP are equal to broadcast”.
	1. Move: Solomon Trainin
	2. Second: Rob Sun
	3. Result: The motion is passed with unanimous consent
11. Motion #103. Do you agree to add the following sentence in Section 3.1.2 of the SFD?: “At least CCA of energy detection shall be performed on each non-primary channel”.
	1. Move: Solomon Trainin
	2. Second: George Calcev
	3. Result: The motion is passed with unanimous consent
12. Motion #104. Do you agree to add the following sentence in Section 3.1.2 of the SFD?: “A TXOP initiator shall not use a secondary channel if CCA of the channel is busy and may use the channel otherwise”.
	1. Move: Solomon Trainin
	2. Second: George Calcev
	3. Result: The motion is passed with unanimous consent
13. Motion #105. Do you agree to add the following in the SFD?: “Support the encoding of bonded channels codes 0-5 as presented in slide 7 of 11-16-1206-00-00ay”.
	1. Move: Solomon Trainin
	2. Second: George Calcev
	3. Result: The motion is passed with unanimous consent
14. Motion #106. Do you agree to add the following sentence in Section 2.2.1 of the SFD?: “The length size of the Block Ack window bitmap for EDMG STAs shall be one of 64, 128, 256, 512 or 1024 bits”.
	1. Move: Solomon Trainin
	2. Second: Yan Xin
	3. Result: The motion is passed with unanimous consent
15. Motion #107. Do you agree to add the following sentence in Section 3 of the SFD?: “The length of the Block Ack bitmap is determined as a result of the Buffer Size negotiation in the ADDBA Request/Response frame exchange as specified in slide 7 of 11-16-1212-01-00ay”.
	1. Move: Solomon Trainin
	2. Second: Yan Xin
	3. Result: The motion is passed with unanimous consent
16. Motion #108. Do you agree to add the following sentence in Section 2.2.1 of the SFD?: “EDMG BA format is as defined in slides 5 and 6 of 11-16-1212-01-00ay”.
	1. Move: Solomon Trainin
	2. Second: Ou Yang
	3. Result: The motion is passed with unanimous consent
17. Motion #109. Do you agree to add the following text in the SFD?: “The EDMG-Header-A shall contain the STBC bit signaling to indicate that the STBC scheme was applied at the transmitter”.
	1. Move: Artyom Lomayev
	2. Second: George Calcev
	3. Result: The motion is passed with unanimous consent
18. Chair reviewed the timeline of the Task Group (slide 58).
	1. Carlos Cordeiro (Intel) presented a proposal on revised timeline. Doc. IEEE 11-16/1278r1.
	2. Floor opened for discussion
	3. Straw Poll #1: Do you agree with the updated 11ay timeline presented in slide 4?
		* Yes: 32
		* No: 0
		* Abstain: 3
		* Straw poll passed
	4. Chair encouraged the participants to review the timeline and provide feedback to Editor for any further question and comment. The plan is to confirm on a revised timeline in November 2016 plenary,
19. Chair reviewed the goals for the November 2016 wireless interim meeting.
20. Chair reviewed the teleconference schedule, which is October 26 (Wednesday), 10:00am ET – 11:00am ET. No objections noted.
21. The Task Group AY Warsaw meeting was adjourned on September 15, 2016 at 17:01**.**