IEEE P802.11  
Wireless LANs

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| September 2016 Warsaw Session Minutes | | | | |
| Date: 2016-09-15 | | | | |
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|  |  |  |  |  |

Abstract

Minutes for TGai for the September 2016 802.11 Interim in Warsaw, Poland.

1.0 **TGai Minutes for Tuesday, September 13, 2016 8-10am - AM1**

* 1. **Called to order** by the Vice-Chair Marc EMMELMANN (self, KDTI) at 8:10am
  2. **Review Meeting Protocol**
  3. **Review Patent Policy**
     1. No Issues were noted
  4. **Review Agenda**
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1089-01-00ai-tgai-agenda-warsaw-september-2016.pptx>
        + **TGai MEETING CALLED TO ORDER**
        + **CALL FOR ESSENTIAL PATENTS AND POLICIES & PROCEDURES REMINDER**
        + **Call for secretary for this slot**
        + **Plan for week**
        + **Modify and/or Approve Agenda**
        + **Approve the past meeting and teleco minutes.**
        + **Editors report**
        + **Current status of last recirc SB**
        + **Comment resolution**
          - 11-16/1235r0 submission Marc EMMELMANN (self, KDTI) (editorial comments)
          - comment resolution spreadsheet: <https://mentor.ieee.org/802.11/dcn/16/11-16-1203-00-00ai-comments-from-4th-recirculation-sb-on-tgai-d10-0.xlsx>
        + **Recess until Tue PM2**
     2. **Motion #W1:** Motion to approve Agenda
        1. Moved: Jouni MALLINAN 2nd: Peter YEE
        2. No objection – Motion **#W1** approved without objection
  5. **Motions to approve prior minutes**:
     1. **Motion #W2:** Approve TGai Meeting Minutes for the IEEE 802.11 San Diego meeting as in 11-16-1031r0 (seehttps://mentor.ieee.org/802.11/dcn/16/11-16-1031-00-00ai-july-2016-san-diego-session-minutes.doc)
        1. Moved: Peter YEE 2nd: Xiofei WANG
        2. No objection – Motion **#W2** approved without objection
     2. **Motion #W3:** Approve TGai teleconference meeting minutes of SanDiego to Warsaw meeting as contained in 11-16/1103r01
        1. Moved Dan HARKINS 2nd: Peter YEE
        2. No objection – Motion **#W3** approved without objection
  6. **Review status of Process**
     1. Review Sponsor ballot results
  7. **Review Comment file: 11-16-1235r2** –Marc EMMELMANN (self, KDTI)
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1235-02-00ai-proposed-resolution-editorial-issues.xlsx>
     2. Document posted last week
     3. Proposed resolutions for each comment has been included
     4. Some comments that were marked Technical, are in fact Editorial Errors, and need to be reverted back to the prior state.
     5. Review the “2016-9-11 yellow“ Tab
        1. 7 Comments need more review from the group
        2. There are some revision numbers that need to be updated.
        3. There are some “ToDo” tags need to be completed in the file.
     6. Plan to motion the resolutions for the Editorial tab first.
     7. **Motion #360 : 2016-09-11-Editor Tab**

Move to Approve the comment resolutions as shown in the “2016-09-11-Editor” tab of 11-16/1235r2 <<https://mentor.ieee.org/802.11/dcn/16/11-16-1235-02-00ai-proposed-resolution-editorial-issues.xlsx>>.

* + - 1. Moved: Mike MONTEMURRO 2nd: Jouni MALINEN
      2. Discussion: none
      3. Results: 10-0-0 Motion **#360** passes
  1. **Review doc: 11-16/1151r3** – Dan HARKINS (HPE)
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1151-03-00ai-kdf-prf-pkex.docx>
     2. CID 31228, 31112, 31102
        1. Review comment
        2. The Baseline text has changed, so the TGai draft is showing incorrect text.
        3. New text needed to match the baseline reviewed
        4. Review changes proposed
        5. New Acronym – ICK replaces KEK in the TGai draft
        6. Need to define ICK in the Acronyms clause and definition clause – 3.2 and 3.4
        7. No objection to the proposed changes, but need the updated definitions
        8. Defer the resolution to after the Security discussion in PM2 later today
        9. Need to have a TAG added to allow for clear distinction of the parts of the submission
        10. New revision will be posted and ready for presentation in PM2
  2. **Review doc 11-16/1235r2** – Marc EMMELMANN (self, KDTI)
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1235-02-00ai-proposed-resolution-editorial-issues.xlsx>
     2. CID 31140
        1. Review comment
        2. From Adhoc notes:

The comment seems to claim that there is a discrepancy between the REVmc baseline and the version in P802.11ai/D10.0 on page 107 lines 1-10. That does not seem to be the case, but one needs to compare the text word by word to realize that.. ;-)

That said, there is an issue here in how P802.11ai splits the description of what happens in successful reassociation to the STA's state at the target AP. The baseline text has two sentences describing the state changes: the first one for the target AP and the second one for the current (old) AP. P802.11ai splits the first sentence, but does not include the parenthetical in the added sentence (page 107 line 8) and as such, it is not clear which AP that sentence is referring to (the old/current or the new AP). It is supposed to talk about the new AP. This can be fixed by copying the parenthetical from the original baseline sentence for the case of the new AP.

* + - 1. Review Proposed Resolution: Revised. On page 107 line 8 replace

"Successful reassociation sets a FILS STA’s state to State 4 and enables it to exchange Class 3 frames."

with

"Successful reassociation sets a FILS STA’s state to State 4 (with respect to the AP or PCP that was sent the Reassociation Request frame) and enables it to exchange Class 3 frames."

* + - 1. No objection – Mark ready for Motion
    1. CID 31103 and CID 31113
       1. Review comment
       2. From adhoc notes:

Note: This is on page 131 line 24 in D10.0 (comment was referring to the redline version).

REVmc/D8.0 text:

"Key MIC (bit 8) is set to 1 if a MIC is in this EAPOL-Key frame and is set to 0 if this message contains no MIC."

Current P802.11ai/D10.0 text:

"Key MIC (bit 8) When AKM negotiated is not 00-0F-AC:14, 00-0F-AC:15, 00-0F-AC:16, or 00-0F-AC:17, this subfield is set to 1 if a MIC is in this EAPOL-Key frame and is set to 0 if this message contains no MIC. When using an AEAD cipher this subfield is set to 0."

Proposed text from the comment:

"Key MIC (bit 8), when AKM negotiated is not an AEAD cipher, is set to 1 if a MIC is in this EAPOL-Key frame and is set to 0 if this message contains no MIC. When using an AEAD cipher this subfield is set to 0."

This does not look very clear and can be further clarified. It should also be noted that an AKM is not an AEAD cipher, an AKM identifies which algorithms and ciphers are used. Cleaned up version:

"Key MIC (bit 8) is set to 1 if not using an AEAD cipher and a MIC is in this EAPOL-Key frame and is set to 0 otherwise."

* + - 1. Proposed Resolution: Revise. Replace this item in 12.7.2 (page 131 lines 24-27) with: "Key MIC (bit 8) is set to 1 if not using an AEAD cipher and a MIC is in this EAPOL-Key frame and is set to 0 otherwise." showing the modification to the baseline.
      2. Need comma at 2nd “and”.
      3. Updated Resolution: Proposed Resolution: Revise. Replace this item in 12.7.2 (page 131 lines 24-27) with: "Key MIC (bit 8) is set to 1 if not using an AEAD cipher and a MIC is in this EAPOL-Key frame, and is set to 0 otherwise." showing the modification to the baseline.
      4. Specifically for CID3113, the adhoc notes: The text actually covered the listed AKMs with the "using an AEAD cipher" being identical to this list of AKMs, but this can be made clearer by only using the "not using an AEAD cipher" instead of two different ways of indicating this.
      5. Discussion of the new sentence covers the issue.
      6. No objection – mark ready for motion
    1. CID 31234
       1. Review comment
       2. Proposed Resolution: Revised. Use dot11AuthenticationAlgorithm values 5-7 instead of 4-6 for the new FILS values and fix the baseline text for previously used values with following changes on page 166: line 27 replace "(4)" with "(5)", line 28 replace "(5)" with "(6)", line 29 replace "(6)" with "(7)", lines 39-42 increment each value by one (1..4) to match baseline in REVmc, lines 43-45 increment each value by one (5..7) for the new FILS values.
       3. Need to ensure that this change is reviewed when implemented.
       4. No objection – Mark ready for Motion
    2. CID 31228, 31112, 31102
       1. CID covered by 11-16/1151r4
          1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1151-04-00ai-kdf-prf-pkex.docx>
       2. Updates to the submission were proposed and r5 was posted.
       3. Proposed Resolution: Revise. Incorporate text changes in 11-16/1151r5 (<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-05-00ai-kdf-prf-pkex.docx>) for CIDs 31228, 31112, and 31102.
       4. No objection – Mark Ready for Motion
  1. **Review Doc 11-16-11203r2 -** Marc EMMELMANN (self, KDTI)
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1203-02-00ai-comments-from-4th-recirculation-sb-on-tgai-d10-0.xlsx>
     2. CID 31237
        1. Review comment
        2. Proposed Resolution: Accept
        3. No objection – Mark ready for Motion
     3. CID 31104
        1. Review comment
        2. Proposed resolution: REVISED (TGai General: 2016-09-12 10:30:04Z) - Globally Replace "dot11FILSImplemented" with "dot11DILSImplemented" throughout P802.11ai. (5 instances)
        3. Discuss the use of DILS vs FILS.
        4. No objection – Mark ready for Motion
  2. **Review Doc 11-16/1251r0** - Jouni MALINEN (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1251-00-00ai-p802-11ai-cid-31236.docx>
     2. CID 31236
        1. Review comment
        2. Review discussion
        3. There are several CIDs that were rejected in previous Recirculation that need reconsideration.
        4. Review list of CIDs cited
        5. Review/Discussion on the rejection reasons for cited CIDs.
        6. Proposed Resolution: “Rejected. Only two of the cited CID 3xxxx comments were rejected based on being “out-of-scope”. Those two comments (CID 31029 and 31030) pile up on two comments (CID 20064 and 20065) which were invalid comments since they did not provide editorial instructions that can be immediately adopted to satisfy the comment.”
        7. Option 1 would be to reject the comment and not make any of the previous requested changes.
        8. No objection for Option 1, but we will continue the discussion in the afternoon, but ask all to review the possible changes for consideration.
        9. Suggest that CID 31011 be considered as a technical change that needs to be considered to correct text.
        10. ACTION ITEM #1: review proposal for discussion later.
        11. Proposed Resolution Option 2 would be proposed this afternoon with a list of acceptable changes.
  3. **Recess** 10:00am

1. **TGai Tuesday 13 September 2016 1:30-3:30pm - PM1**
   1. **Called to order** at 1:34pm by the Vice-Chair, Marc EMMELMANN (self, KDTI)
   2. **Review Patent Policy**
      1. No issues noted
   3. **Remote Participation:**
      1. A Join.me session was started to allow remote participant discussion.
      2. 3 individuals dialed in : Paul LAMBERT (Marvel); Hiroshi MANO (KDTI); Hitoshi Morioka (SRC Software)
   4. **Motion #361:** 2016-09-13-AM1 “Tab

Approve the comment resolutions in the “2016-09-13-AM1” tab of https://mentor.ieee.org/802.11/dcn/16/11-16-1203-03-00ai-comments-from-4th-recirculation-sb-on-tgai-d10-0.xlsx.

* + 1. Move: Mark Hamilton 2nd: Abishek PATIL
    2. Results: 13-0-2 Motion **#361** Passes
  1. **Security Related Discussions**
     1. **Remote presentation – 11-16/1142r0** Paul LAMBERT
        1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1142-01-00ai-cryptographic-review-and-pkex.ppt>
        2. Review presentation
        3. Background information presented
        4. Review of PKEX Issues noted by reviewers
        5. Walk through the MiTM (Man in the Middle) Attack
        6. Review some options for PKEX
           1. Fix – Remove – Replace
           2. Questions for Paul:

None

* + - * 1. Straw Poll:

1. Fix PKEX
2. Remove PKEX
3. Replace PKEX
4. No Change:
   * + - 1. Results: 0-10-0-3 – Preference would be to remove PKEX
     1. **Review doc 11-16/1261r2** – Dan HARKINS (HPE)
        1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1261-02-00ai-pkex-issue.pptx>
        2. Review Presentation
        3. Review of Off-Line Dictionary Attack
        4. Review of alternate MiTM attack
        5. Questions for Dan:
           1. Disagreement with Slide 9, and the conclusion of the presentation.

The intent of PKEX was to share the Public Key exchange.

* + - 1. While there was some disagreement on the severity of the problem of the MiTM, there is still the Dictionary Attack that is not an easy fix.
      2. Concern expressed with the definition of the usage of PKEX
      3. Reminder that we need to find a solution today to progress TGai forward.
      4. Timeliness of getting the Security review done in a timelier manner.
         1. This will not be resolved today, but please contact the WG Chair with suggestions.
  1. **Review doc 11-16/1151r6** – Dan HARKINS (HPE)
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1151-06-00ai-kdf-prf-pkex.docx>.
     2. Review changes needed to remove PKEX
     3. Discussion on if we can Remove the 12.7.12 in its entirety
        1. Agreement that we can remove it in its entirety.
     4. We ask that a new version D7 be posted with the changes.
     5. New version with the changes was posted.
     6. <https://mentor.ieee.org/802.11/dcn/16/11-16-1151-07-00ai-kdf-prf-pkex.docx>
  2. **Motion #362**: Removal of PKEX

Move to Incorporate the changes to the TGai Draft as shown under “PKEX changes” in 11-16/1151r7 <<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-07-00ai-kdf-prf-pkex.docx>>

* + 1. Moved: Stephen MCCAAN 2nd: Dan HARKINS
    2. Discussion: please confirm it is posted – it has been
    3. Results: 13-0-1 Motion **#362** Passes
  1. **Review doc 11-16/1251r0** – Jouni MALINEN (Qualcomm)
     1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1251-00-00ai-p802-11ai-cid-31236.docx>
     2. Review the comment that may still have a change we may want to include.
     3. Review CIDs that were referenced in CID 31236.
     4. CID 31008
        1. Review comment and the previous resolution
        2. Proposal to accept the proposed change.
        3. Question on if any change would be wanted.
        4. Agree to not include in the changes
     5. Straw Poll:

1. No Changes
2. Agree to look at the changes
   * + 1. Results: 7-5 – it is close, but allow further discussion.
     1. CID 31014
        1. Review the proposed change requested
        2. We agreed that a reject reason has been prepared for CID 31236, but there is a question on if some of the changes may be of value anyway.
        3. Continue the review of the substance.
        4. No agreement to make the change.
     2. CID 31011
        1. Review the proposed change requested
        2. Recommend to make the change.
        3. Discussion on the need to change the SCAN process in MLME vs SCAN clause (9?)
        4. No agreement to make the change.
     3. CID 31012
        1. Review the proposed change requested
        2. Discussion on the potential risk
        3. No agreement to make the change.
     4. CID 31027
        1. Review the proposed change requested
        2. Discussion on the potential risk
        3. No agreement to make the change.
     5. CID 31022
        1. Review the proposed change requested
        2. Discussion on the potential risk
        3. No agreement to make the change.
     6. CID 31035
        1. Review the proposed change requested
        2. Discussion on the potential risk
        3. No agreement to make the change.
     7. CID 31030
        1. Review the proposed change requested
        2. Discussion on the potential risk
        3. No agreement to make the change.
     8. CID 31029
        1. Review the proposed change requested
        2. No agreement to make the change.
     9. CID 31010
        1. Review the proposed change requested
        2. Discussion on the potential risk and value of doing the change.
        3. No agreement to make the change.
     10. We did not agree to make any changes based on the list of CIDs.
   1. **Motion #363 CID 31236 Resolution:**

Move to Set the comment resolution status for CID 31236 to Reject

And use the the following comment response:

Rejected. Only two of the cited CID 3xxxx comments were rejected based on being “out-of-scope”. Those two comments (CID 31029 and 31030) pile up on two comments (CID 20064 and 20065) that were invalid comments since they failed to identify changes in sufficient detail so that the specific wording of the changes that will satisfy the commenter can be determined.

* + 1. Moved: George CALCEV 2nd: Mike MONTEMURRO
    2. Results: 11-0-1 Motion **#363** Passes
  1. **Final process review**
     1. That concludes all the CIDs that need to be processed.
     2. The Chair needs time for preparing the EC Report
     3. Comment spreadsheet will be posted in about an hours’ time.
     4. The Editors will be notified of the completed CID resolutions.
     5. Hope that the Editor will have a draft available by Monday and can start the SB recirc before Wednesday next week – Need Review on Monday with Redline
  2. **Draft version of the EC Report reviewed**
     1. Rough Timeline update
        1. 5th Recirc on D11.0 before Oct 3 (has to be started prior to EC conditional approval)
        2. 6th Recirc on unchanged D11.0 – before Oct 16 (must have started prior to posting to RevCom)
        3. So September 22 is a good target for getting Recirc #5 started.
     2. Need to schedule a telecom on the date of the comments are available after each Recirc to ensure a call as soon as we can.
     3. Account for the review in the schedule.
  3. **Recess at 3:28pm until 8:30am Wednesday( AM1**)

1. **TGai Wednesday 14 September 2016- 8:30-10:00 AM1**
   1. **Called to order** by the Vice Chair, Marc EMMELMANN (self, KDTI) at 8:32am
   2. **Patent Policy review**
      1. No issues noted
   3. **Review status and plan Agenda**

TGai MEETING CALLED TO ORDER

Call for secretary for this slot

Modify and/or Approve Agenda

Status Update

Draft Edit Status

Request for Additional TGai slot

Review Status quo report to EC

Review motion text to forward to REVCom

Telcos & Timeline

Verification of draft

Verify edits resolutions & Changes

Review to identify additional potential issues

Comment resolution

Recess until Wed PM1

* + 1. No objection to the agenda
  1. **Status Update**
     1. Editing is going on
     2. Plan to try to have a draft ready on Thursday
     3. Do we need to have more slot times?
        1. We want to add at least one on Thursday PM2 to get last time available
     4. There are some edits that have been noted have been made in error, so more review time is warranted.
     5. Do we want to do review in face to face time or individually?
        1. Plan to get more slots, smaller room would be fine.
     6. Review the process for getting to the interim draft.
  2. **Request for more slots**
     1. Add Wednesday PM2
     2. Add Thursday AM1 PM1 PM2
  3. **Review EC report**
     1. Review the Unsatisfied Comments by commenter slide
     2. Dan HARKINS has sent feedback, but it is not reflected in the slide yet.
        1. Update to be resent
     3. Unsatisfied comments slide needed text change from “Working Group” to “Sponsor”
     4. Mandatory Coordination – finished
     5. Timeline slide reviewed
        1. Plan to open 5th Recirc on 20 September
        2. Plan to open 6th Recirc on Oct 7
        3. Allows for closing by Sept 30 and Oct 17 respectfully.
  4. **Review Motion Text for Recirc**
     1. Update the draft motion to include “Incorporate changes as shown under “PKEX changes” in 11-16/1151r7 <<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-07-00ai-kdf-prf-pkex.docx>>”
  5. **Review Motion for sending report to EC**
     1. Looked ok
  6. **Telcos Timeline review**
     1. Telcos on Tuesday until November has been approved last July
        1. Next Telcon is next Tuesday 2016-09-20 10:00ET
           1. Duration – 1.5hours
           2. Using WebEx provided by the Chair
           3. Can extend the time by motion if required.
     2. When each Recirculation, another Telecon will be scheduled for end of each Recirc Ballot
  7. Review Timeline slide 26
     1. No changes
  8. Technical error noted discussion
     1. CID 31128
        1. The proposed resolution was not correct.
        2. Updated Resolution: Revised: Correct the table number to be 9-135, change the table title to match baseline, change the Reserved row in the baseline from “72, 75 – n” to “75 – n”.
        3. Note to editor: Need to undo the change to the FILS Capability row in 10.1-alpha (the correct bit value for this capability is 72 as was used in D10.0).
     2. **Motion #364** – CID 31128

Move to change the comment resolution for CID 31128 to: Revised: Correct the table number to be 9-135, change the table title to match baseline, change the Reserved row in the baseline from “72, 75 – n” to “75 – n”.

* + - 1. Moved: Jouni 2nd: Stephen MCCANN
      2. Discussion: None
      3. Results 10-0-1 Motion #364 passes
    1. **Motion #365** CID 31212

Move to change the resolution for CID 31212 to:

“Revised. The cited subclause has been removed.”

* + - 1. Moved: Dan HARKINS 2nd: Jouni MALENIN
      2. Discussion: None
      3. Results: 10-0-1 Motion #365 passes
  1. Recess until Wednesday PM1 13:30 (1:30pm)

1. **TGai Wednesday September 14, 2016 1:30-3:30pm PM1**
   1. **Called to order** by the Vice Chair, Marc EMMELMANN (self, KDTI) 1:40pm
   2. **Patent Policy Reminder**
      1. No issues noted
   3. Agenda Review - 11-16/1089r3
      1. <https://mentor.ieee.org/802.11/dcn/16/11-16-1089-02-00ai-tgai-agenda-warsaw-september-2016.pptx>
      2. No objection to proposed agenda
   4. Review Comment Resolutions:
      1. CID 31129
         1. Review the current approved resolution:
         2. Similar to CID 31131 and the resolution should be the same.
         3. Updated Resolution: Revised: The figure is not to be changed and has been deleted from the TGai Draft.
         4. The discussion is that the figure needs to be removed from the TGai draft. So we update the resolution for both CIDs.
      2. **Motion #366** **CID 31129 & CID 31131**

Move to change the resolution for CID 31129 to “Revised: The Baseline figure is not to be changed. Remove the Figure from the TGai.

* + - 1. Move: Jouni MALENIN 2nd: George CALEV
      2. Discussion: none
      3. Results: 8-0-1 Motion #366 passes
    1. CID 31233
       1. Review comment
       2. Review the current approved resolution
          1. There are two instances of the quoted sentence, so Editor cannot know which place to insert the text.
          2. Update for specifics.
       3. Proposed changed Resolution: “Revised. Change "In the Major Section of the Annex, insert the following comment to the end of SMT attributes:" to "In the Major Section of the Annex, insert the following text before the line of ' --  dot11STALCIConfigTable ::= { dot11smt 36 }':".
       4. Suggestion instead of a quoted line, make the instruction to be “add to the appropriate location”. Need to make it clear on where the location is to insert the text.
       5. Updated Proposed Resolution: “Revised. Change "In the Major Section of the Annex, insert the following comment to the end of SMT attributes:" to "Insert the following text before this entry’ -- dot11STALCIConfigTable ::= { dot11smt 36 }' in the dot11smt attribute".
    2. **Motion #367** **CID 31233**

Move to change the resolution for CID 31233 to:”

Revised. Change "In the Major Section of the Annex, insert the following comment to the end of SMT attributes:" to “Insert the following text before this entry ' --  dot11STALCIConfigTable ::= { dot11smt 36 }‘in the dot11smt attribute.”

* + - 1. Moved: Mark HAMILTON 2nd: Jouni MALENIN
      2. Results: 8-0-2 Motion #367 passes
  1. Recess until Thursday AM1 – 8:30am start time.

1. **TGai Thursday 15 September 2016 8:30-10 AM1** 
   1. **Called to Order** by the Vice-Chair, Marc EMMELMANN at 8:34am
   2. **Reminder of Patent Policy**
      1. No Issues
   3. **Review Agenda**
   * **Call to order**
   * **Administrative items**
     + Call for secretary
     + Reminder of patent policies
     + Approval of agenda
   * **Approve / Modify Agenda for Thursday AM1**
   * **Review of D11.0:** 
     + Verification of edits & implementation of comment resolutions given the Editor has a (preliminary) version available
   * **Comment Resolution**
   * **Recess until Thu PM1**
     1. No Objection to the Agenda
   1. **Status**
      1. We called the Editor (apologies for calling in the middle of the night for him)
      2. A new draft will be sent imminently
   2. The group will wait for the new draft and do the review in AdHoc mode until this afternoon.
      1. Plan for AdHoc review of the draft prior to Thursday PM1 and bring results of review to TGai in PM1.
   3. **Recess until Thursday PM1**
2. **TGai Thursday 15 September 2016 1:30-3:30 PM1** 
   1. **Called to Order** by the Vice-Chair, Marc EMMELMANN at 1:35pm
   2. **Reminder of Patent Policy**
      1. No Issues
   3. **Review Agenda**
      * **Call to order**
      * **Administrative items**
        + Call for secretary
        + Reminder of patent policies
        + Approval of agenda
      * **Approve / Modify Agenda for Thursday PM1**
      * **Verification of draft**
        + Verify edits, resolutions & changes
        + Review to identify additional potential issues
      * **Comment resolution**
      * **Motions**
        + Recird
        + Forward to RevCom
        + Administrative
      * **Recess until Thu PM2**
      1. Discussion of the Agenda for this slot and PM2
      2. Remove all the Consent Agenda items and will motion in a regular motion
         1. Move motions to this slot time.
      3. No objection to the updated Agenda
   4. **Verification of Draft**
      1. Review Comments against REVmc D8.0
      2. 2 Comments needed to be verified against REVmc D8.0
      3. CID 31103
         1. Check p2001.57 – against TGai text
         2. Missing the end of sentence that is deleted from baseline.
         3. Updated annotation for Editor
      4. CID 31128
         1. Check 74/188 (pdf page number TGai)
         2. Missing Reserved row “75-n”
         3. Need to add to annotation to note the missing reserved line
      5. Jouni reviewed the other comments that we had previously marked Red and determined they were correct and no further review is needed.
   5. **Motion #W4 - Recess for 45 Minutes**
      1. **Move to Recess for 45 Minutes**
      2. Moved Jon ROSDAHL – 2nd: Dan HARKINS
      3. No objection - Motion #W4 passes without objection
   6. **Recess from 2:10pm**

<Recess>

* 1. **Called back to order** at 3:25pm by vice-Chair Marc EMMELMAN
     1. Motions have been prepared
  2. **Motions**
     1. **Motion #W5: Forward D11: for Recirc**

Having approved comment resolutions for all of the comments received from the 4th Recirculation Sponsor Ballot on P802.11ai D10.0 as contained in document 11-16/1203r6 < <https://mentor.ieee.org/802.11/dcn/16/11-16-1203-06-00ai-comments-from-4th-recirculation-sb-on-tgai-d10-0.xlsx> >, and “PKEX changes” in 11-16/1151r7 (<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-07-00ai-kdf-prf-pkex.docx> ).

Instruct the editor to prepare Draft 11.0 incorporating these resolutions and,

Approve a 10 day Sponsor Recirculation Ballot asking the question “Should P802.11ai D11.0 be forwarded to RevCom?”

* + - 1. Moved: Jon ROSDAHL 2nd: Jouni MALENIN
      2. Discussion: None
      3. Results: 4-0-0 Motion **#W5** passes
    1. **Motion #W6: Forward Draft 11.0 to RevCom**

Request the IEEE 802 Executive Committee to conditionally approve forwarding P802.11ai D11.0 to RevCom.

* + - 1. Moved: Dan HARKINS 2nd: Jon ROSDAHL
      2. Discussion: None
      3. Results: 4-0-0 - Motion **#W6** passes
    1. **Motion #W7**: Approve report to EC

Approve document11-16/1207r2 <<https://mentor.ieee.org/802.11/dcn/16/11-16-1270-02-00ai-p802-11ai-report-to-ec-on-conditional-approval-to-forward-draft-to-revcom.pptx>> as the report to the IEEE 802 Executive Committee on the requirements for conditional approval to forward P802.11ai D11.0 to RevCom, granting the chair editorial license.

* + - 1. Move: Peter YEE 2nd: Dan HARKINS
      2. Results: 4-0-0 -- Motion **#W7** passes
  1. **Motion #W8: Motion to adjourn** 
     1. Moved: Dan HARKINS 2nd: Jouni MELENNIN
     2. No objection
  2. Official THANKS for all the hard work for Marc EMMELMIN.
     1. Round of applause
  3. TGai Adjourned for the week Thursday 16 September 2016 at 3:35pm

**References:**

Tuesday AM1:

<https://mentor.ieee.org/802.11/dcn/16/11-16-1089-01-00ai-tgai-agenda-warsaw-september-2016.pptx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1203-00-00ai-comments-from-4th-recirculation-sb-on-tgai-d10-0.xlsx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1235-02-00ai-proposed-resolution-editorial-issues.xlsx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-03-00ai-kdf-prf-pkex.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1235-02-00ai-proposed-resolution-editorial-issues.xlsx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-04-00ai-kdf-prf-pkex.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1203-02-00ai-comments-from-4th-recirculation-sb-on-tgai-d10-0.xlsx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1251-00-00ai-p802-11ai-cid-31236.docx>

Tuesday PM1:

<https://mentor.ieee.org/802.11/dcn/16/11-16-1142-01-00ai-cryptographic-review-and-pkex.ppt>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1261-02-00ai-pkex-issue.pptx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-06-00ai-kdf-prf-pkex.docx>.

<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-07-00ai-kdf-prf-pkex.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1251-00-00ai-p802-11ai-cid-31236.docx>

Wed AM1:

<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-07-00ai-kdf-prf-pkex.docx>

Thursday PM1:

<https://mentor.ieee.org/802.11/dcn/16/11-16-1203-06-00ai-comments-from-4th-recirculation-sb-on-tgai-d10-0.xlsx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1151-07-00ai-kdf-prf-pkex.docx>

<https://mentor.ieee.org/802.11/dcn/16/11-16-1270-02-00ai-p802-11ai-report-to-ec-on-conditional-approval-to-forward-draft-to-revcom.pptx>