IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | |
| Date: 06may21 | | | |
| Name | Affiliation | Address | Email |
|  |  |  |  |
| Author and Officer presiding: | | | |
| Jay Holcomb,  Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | jholcomb@ieee.org |

Co-Vice-chairs are [Stuart Kerry (OK-Brit/Self)](mailto:stuart@ok-brit.com) and [Al Petrick (Skyworks Solutions)](mailto:apetrick@ieee.org)

Abstract

Minutes of the IEEE 802 RR-TAG teleconference

These are the Minutes of the IEEE 802 RR-TAG teleconference Thursday, 06may21

Chair calls the meeting to order at 15:02 et

1. Chair presents slides 2 – 6 of 802.18-21/0051r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, the agenda:
   1. Call to Order.
      1. Attendance is not on IMAT
      2. Remember to mute when not speaking, thanks.
      3. Please request Q in the chat window.
   2. Administrative items
      1. Someone to take some notes, Peter E.
      2. Attendance & monitor chat window, Stuart K
   3. Approve agenda, last minutes & announcements.
   4. Discussion items
      1. EU Items
      2. Other Regions Items
      3. ITU-R Items
      4. MSGs on 6 GHz
      5. IEEE 802 Stds Table of Frequency Bands
      6. FCC R&O & FNPRM 5.9 GHz (ITS)
      7. Wireless mics
      8. General Discussion Items
   5. Actions required.
      1. All – any action on Wireless mic FNPRM
      2. All-ongoing input external influence (restructuring)
      3. All-ongoing-WRC-23 AIs viewpoints, & restructure ext. influence
      4. Anything new today
   6. AOB and Adjourn
3. Chair presents slides 8 - 9 Administrative – Motions and more
   1. **Motion: To approve the agenda as presented on previous slide**

Moved by: Stuart Kerry (OK-Brit, self)

Seconded by: Vijay Auluck (self)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 teleconference in document <https://mentor.ieee.org/802.18/dcn/21/18-21-0048-01-0000-minutes-29apr21-rrtag-teleconference.docx> 30-Apr-2021 22:18:25 ETwith editorial privilege for the 802.18 chair

Moved by: Stuart Kerry (OK-Brit, self)

Seconded by: Al Petrick (Skyworks)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward** 
     1. For **May 2021** that was at the Hilton in Panama City, Panama, the WCSC on 03Feb21 **approved to cancel the in-person 802W interim**. This leaves the WGs and TAGs to hold interims as they wish.
        1. At this point still no participation credit, no word from EC yet.
        2. Other WGs/TAGs
        3. .11: 10-18May21; .15: 11-20(early)May21;
        4. ,19:\_n/a\_\_\_ .24: \_wed\_
        5. For .18 will plan on: 13 & 20May21 (normal Thursday’s, 1500et, 55 mins)
     2. For **July 2021** that was in Madrid, Spain, the LMSC(EC) on 05Mar21 **approved to cancel the in-person 802 Plenary.** It will be electronic like the past ones.
        1. At the EC teleconference Tuesday (06Apr), approved 09-23 July 21 dates.
        2. Also the registration fee was approved. The plan:
        3. $50 – till 30June $75 registration fee after 30june.
        4. registration opens: 10 May
        5. reminder sent on 28june (2 days, before fee increases) and on 30june last day before fee increases.
        6. reminder sent on 05 july – notifying of $75 fee started 01july
        7. For .18 will plan on: 15 & 22Jul21 (normal Thursday’s 1500et, looking at 2 hour slot for one, possibly the 22nd. )
           1. Do not want to overlap with .19 with the 2 hr slot.
           2. The extra hour will focus on IEEE 802 WRC-23 AIs viewpoints
     3. **From WCSC call, 07apr21**
        1. Not for May, for future Wireless interims if we have any that are virtual:
           1. Will look closer to have them as a full Wireless Interim of all WG/TAGs, not as individual sessions.
           2. Will have specific time slots all meetings will adhere too. To help with overlap/adjacent meetings and stay with in 17:59 IMAT window.
           3. Likely will have a registration fee similar to what the plenaries are doing.
     4. For **Sept 2021**, the ePoll result:
     5. .18 .11 .15 .19
     6. Yes      11        47.8%  I can attend in person 67 14 13
     7. No        12        52.2%  I cannot attend in person 108 21 14
     8. Yes        1          4.3%  I cannot pay the fee 59 8 7
     9. No        22        95.7%  I can pay the fee 116 27 20
     10. With that, the WCSC approved yesterday, 05may21, to cancel the in person f2f sept 2021 Wireless Interim at the Hilton in Waikoloa, HI, 12th-17th.
     11. Also, WCSC approved yesterday to have a 3-tier fee for the September 2021 (electronic) Wireless interim; $50 up to 15 days before, $75 to start of interim and $125 after the start of the interim.

1. Chair presents slides 11 & 12, **EU items to share**
   1. **General EU info:** [**<ojeu>**](https://eur-lex.europa.eu/oj/direct-access.html)[**<HStds>**](https://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/)[**https://www.etsi.org/deliver/etsi\_en/**](https://www.etsi.org/deliver/etsi_en/)
   2. **Remember – BRAN documents can be found in the 802.11 private area documents (daily refresh)**
   3. **ETSI is working on how to recoup all the costs for all the virtual meetings.**
      1. 01apr: They are looking at virtual meetings at least until 01sep21 like CEPT.
   4. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **calls are #110 18-25jun21**
      1. 6 GHz draft std. is standing by, so no new draft from the #109e meeting, see BRAN(21)109e006r6. Watch for more on this one.
      2. TVWS standard adding UAR is moving forward toward ENAP, other regions and the process.
      3. 29apr: UAR was today, a new draft version of EN 301 893 was posted for decision at Friday’s call; along with 6 GHz standards updates.
      4. What a notified body has to do had a good discussion also.
      5. UAR had a discussion on interference to other users and just how that will work. e.g. even in TVWS
      6. There was no consensus on Narrow Band FHSS (VLP)
      7. 15apr: 109a-Agenda has comments from ENAP on, multi-GB, RLAN 302 567 (60GHzAN) and if needed a revised draft for ENAP again.
      8. 25mar: In BRAN(21)109061, ETSI TC BRAN ad hoc meeting #109e (26 thru 30Apr21) will focus on
      9. • EN 301 893 (5 GHz), and • EN 303 687 (6 GHz), and User Access Restrictions (UAR).
   5. **CEPT** 
      1. Note: CEPT will only have virtual meetings through 01Sep21, at this point.
   6. **CEPT – ECC** [**<WGSE>**](https://cept.org/ecc/groups/ecc/wg-se/client/introduction/) **calls #89 27Sep-01Oct21**
      1. Nothing to share today.
      2. 29apr: Minutes are in [SE(21)079](https://cept.org/Documents/wg-se/64177/se-21-079_minutes-of-88th-wg-se-meeting). WI 63 for SE 24 – short term interference into fixed systems, like into uWave stations at 6GHz. Need to watch this one close.
      3. 15apr: SE21 – ECC recommendation on receiver performance. This is also with ERM, on the ETSI side.
         1. New phases of the RED are coming and will have new rules that will be adding more to the receiver standards.
   7. **CEPT – ECC** [**<SE45>**](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next call #13, 01-02Jun21 (13:30-18:30CEST)**
   8. **CEPT – ECC** [**<WGFM>**](https://cept.org/ecc/groups/ecc/wg-fm/client/introduction/) **next call #99, 24-28May21**
   9. **CEPT – ECC** [**<FM57>**](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **calls #15 10-12May21; #16 12-13Jul21 (provisional)**
      1. Nothing to share today (meeting next week)
      2. 29apr: Meeting last week progressed the draft ECC Report on enabling WAS/RLAN on a national basis in the 5.8 GHz.
      3. Temp Doc TEMP 004 (CEPT login) outdoor operation and registration for outdoor operation, inputs from from Czech and UK.
      4. 15apr: Contributions have been posted, e.g. [FM57(21)007](https://cept.org/Documents/fm-57/64031/fm57-21-007_revisions-to-draft-ecc-report-on-national-measures-for-wasrlan-zip-file-cover-plus-annex) on 5.8 GHz. Also, [FM57(21)008](https://cept.org/Documents/fm-57/64032/fm57-21-008_country-determination-capability-cdc-requirements-for-was-rlan-operating-in-58-ghz) France has country determination capability input, it is back again.
      5. 08apr: Only topic at #14, is on 5.8 GHz sharing EC 04(08). Other docs are not through public EC consultations yet, so nothing to discuss.
2. Chair presents slides 13, **Other regions (outside EU-Stds and USA), items to share**

* 1. **Peru, MTC**, adopted 6 GHz (5925-7125MHz) for unlicensed use. <https://www.realwire.com/releases/DSA-celebrates-MTCs-decision-to-enable-unlicensed-access-to-the-6-GHz-band>
     1. Final rules by end of May. Updated after the meeting:
     2. They are actually following US with 30dBm/24 dBm for AP/Clients and PSD of 5/-1 dBm/MHz for AP/Clients
  2. Also, **Costa Rica, SUTEL**, has adopted full 6 GHz band and also have Very Low Power (VLP) for outdoor.
  3. **UK, OFCOM**, SRD list of where specific rules are: <https://www.ofcom.org.uk/__data/assets/pdf_file/0028/84970/ir-2030.pdf>
     1. These rules take effect on 12may21.
     2. And, UK rules are different from the EU side, by a little. so need to review.
     3. Release news: <https://www.ofcom.org.uk/consultations-and-statements/category-2/licence-exemption-licensing-equipment-changes>
  4. **Saudi Arabia, CITC**, released a 3-year outlook for commercial and innovative use of spectrum there:
     1. Mentor: <https://mentor.ieee.org/802.18/dcn/21/18-21-0041-00-0000-citc-spectrum-outlook-for-commercial-innovative-use-2021-23.pdf>
     2. One of the items:
     3. Unlicensed consultation (5925 – 7125 MHz and 66 – 71 GHz) Detailed plans for the 6 GHz and 66 – 71 GHz bands including power levels and any restrictions Consultation Q2 2021
     4. Looking for the consultation, not yet.

1. Chair presents slide 14, **ITU-R items to share**
   1. WP 5A meeting going and the 3 contributions from IEEE 802 are there.
   2. The THz contribution has been incorporated into the draft, **and IEEE 802 was thanked for the contribution.**
   3. For the other 2 contributions on M.1801 and M.1450 (6 GHz).
      1. Still some concerns, one email discussion going on M.1801 and IEEE 802 text was accepted into a new draft. Not a final agreement yet.
      2. M.1450 email discussion group formed May 6. Will also work on LS if there is agreement on base doc, third doc is the work plan.
      3. The concerns are what has been brought before, by the same countries. And it is on license exempt use in 6 GHz.
      4. Chair of 5A is leading the email discussions of each, but emails close Friday CET midnight and may move to next WP 5A call in November, tbd.
   4. IEEE 802 viewpoints on WRC-23 agenda items. **ad hoc: 5 folks stepped up. Are there any others to help?** 
      1. Doc for viewpoints: <https://mentor.ieee.org/802.18/dcn/21/18-21-0039-00-0000-ieee-802-viewpoints-on-wrc-23-agenda-items.pptx>
      2. Key item was to review what we can on responses to consultations many countries are doing on topics related to WRC-23 AIs, e.g. on 6 GHz that is included in AI 1.2
      3. Though this process could work for other Agenda Items that maybe of interest to us also.
         1. It does seem the Arab states are engaging quicker than other regions, e.g. on 6 GHz.
         2. Oman has a consultation out on Wi-Fi 6;
            1. <https://www.tra.gov.om/En/ViewPublicConsultations.jsp?code=33>
         3. FCC WAC has a *preliminary* view on AI 1.2, we should look at this.
            1. <https://www.fcc.gov/us-contributions-sent-citel-pccii-wrc-23>
         4. Don’t forget the actual ITU-R WPs will be working AIs they have.
         5. **Next discussions will be during July 2021 electronic plenary**.
      4. Reference:
         1. Updated WRC-23 Agenda Item list: [https://mentor.ieee.org/802.18/dcn/20/18-20-0107-01-0000-res-811-wrc-19-wrc-23-agenda-items.docx](https://mentor.ieee.org/802.18/dcn/20/18-20-0107-00-0000-res-811-wrc-19-wrc-23-agenda-items.docx)
         2. btw- the initial AIs to consider IEEE 802 viewpoints:
            1. 1.1 -800-4 990 MHz and Resolution 223. Connection w/ITS going there?
            2. 1.2 -300-3 400MHz, 3 600-3 800MHz, 6 425-7 025MHz, 7 025-7 125MHz and 10.0-10.5GHz for International Mobile Telecommunications (IMT) and resolution 245.
            3. 1.5 -470-960 MHz in Region 1-consider possible regulatory actions, Resolution **235.**
            4. 10 **-**recommend to the Council items for inclusion in the agenda for the next WRC
2. Chair presents slide 15, **MSG 6 GHz**
   1. **The WInnforum “6 GHz Committee”, all groups meet every 2 weeks except interference-weekly (168people)** 
      * 1. <https://www.wirelessinnovation.org/6ghz-multistakeholder-committee>
        2. For access to documents from the committee, can request to be an observer from the MSG below.
      1. New org: 2 (now) focus areas:
         1. 1) AFC Functional Specification -WG – includes: Interference-TG, Incumbent Info-TG, security (new) and 3GPP-TG
         2. 2) AFC Test and Certification-WG
         3. Nothing to share today.
   2. **From the FCC R&O, an informal MSG (“Group”) has also been formed. (260+ people)** 
      1. <https://groups.wirelessinnovation.org/wg/6MSG/dashboard>.
         1. **Work stream 1 - interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO) Meets biweekly, from 28Jan21-10:00 et,**
         2. Work stream 2 - correct incumbent data (ULS) (Comsearch, APCO)
         3. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
         4. Overall Co-chairs: NPSTC, UTC, WFA, WISPA.
      2. **WS1 this morning (06may), adopted an outline for final WS1 report. Some controversy but did get to outline of record.** 
         1. **Disputed headings, some may not have input, then not used.**
         2. **How to handle the interference w.r.t. complainer was some of the discussion.**
         3. **Seems the interpreting what is unlicensed, light license, license exempt, etc., is different from different entities/counties though it will come to what the FCC decides - for USA.**
      3. Here are links to two good reports, you may need to request username/password which is open to anyone.
         1. Nokia <https://groups.wirelessinnovation.org/wg/6GHz-MSG-WS1/document/16057> (extended spectrum analyzer software network platform.)
         2. Aviat <https://groups.wirelessinnovation.org/wg/6GHz-MSG-WS1/document/16060> (dribbling 2nds, most 10dB off noise floor**)**
3. Chair presents slide 16, **Table of IEEE 802 Stds Frequency Bands**
   1. **Problem statement**
      1. It is difficult for 802 wireless standards developers to quickly and accurately identify all the frequency bands by the family of 802 wireless standards in a regularly maintained database.
      2. The primary application is to simplify identification of potential frequency bands for coexistence assessment.
   2. **Initial Audiences:** 
      1. 1) 802 wireless standards developers
      2. 2) 802.19 wireless coexistence working group
   3. **Ad hoc calls** 
      1. **The spreadsheet is going, always look for latest:**
      2. <https://mentor.ieee.org/802.18/dcn/21/18-21-0036-04-0000-frequency-table-template.xlsx>
      3. Made a few updates to the Table of Frequency Bands at the ad hoc, 27apr21. A few include:
         1. Added worksheet Frequency Range for frequency range additional info, like names.
         2. Added a column, Standard or Project, to the Stds (new name) worksheet.
         3. Updated the instructions for above.
         4. Then added a worksheet (will call them worksheets not tabs), for notes, e.g. pull in the future items from the .18 meeting a few weeks ago.
         5. Moving forward try to get going adding in frequency ranges from the different WGs.

* 1. Chair to add to IEEE 802 Stds table of Frequency bands worksheet on future considerations the UK IR 2030 report should be looked at and how it affects this activity, it has lots of services and lots of bands. (has been added in draft of rev05)
  2. **The next meeting will be 25may21. (call-in in backup slides here)**

1. Chair presents slide17, FCC NPRM for Wireless Mics
   1. FCC Notice of Proposed Rulemaking (FCC 21-46)., ET Docket No. 21-115; RM-11821
      1. <https://www.fcc.gov/document/fcc-looks-open-door-new-wireless-microphone-technologies-0>
      2. Or <https://mentor.ieee.org/802.18/dcn/21/18-21-0046-00-0000-fcc-nprm-new-wireless-microphone-technologies-fcc-21-46a1.docx> (40 seek comments)
      3. “Wireless Multi-Channel Audio System” (WMAS) in the US (FCC 21-46)
      4. Wireless Microphones are authorized 6875-6900 MHz and 7100-7125 MHz and more bands.
      5. **1W per microphone plus 1W per microphone channel = 2W in the air in the band per microphone**
      6. Digitally combining multiple microphone signals
      7. NPRM seeks public comment allowing WMAS shared with incumbents under Part 74 licensed devices
      8. NPRM seeks public comment should permit WMAS to operate unlicensed under Part 15 rules
      9. WMAS on a licensed basis in frequency bands where wireless microphones already are currently authorized, including the TV bands, the 600 MHz duplex gap, and in portions of the 900 MHz, 1.4 GHz, and 7 GHz bands
      10. FCC does not intend to impact incumbents of the bands
      11. WMAS is permitted in EUROPE under ETSI
      12. All – please review the FCC wireless mic action and is there anything .18 should review further or act upon?
      13. No feedback today.
   2. Current ETSI standard, 2017:
   3. <https://www.etsi.org/deliver/etsi_en/300400_300499/30042201/02.01.02_60/>
   4. For UK: <https://www.gov.uk/government/publications/designated-standards-radio-equipment>
2. Chair presents slide 18-19, **FCC R&O and FNPRM 5.9 GHz (ITS)**
   1. **Rules, Use of the 5.850-5.925 GHz Band**, FR Document: [2021-08802](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2021/05/03/2021-08802/use-of-the-5850-5925-ghz-band?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!jqS68X-_tLlwEGW4shkEjeLvGvz3AHIcSUlv8diJBD2EAMcZGUiekBvywVI_mGXpaA$), Citation: 86 FR 23281 [PDF](https://urldefense.com/v3/__https:/www.govinfo.gov/content/pkg/FR-2021-05-03/pdf/2021-08802.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!jqS68X-_tLlwEGW4shkEjeLvGvz3AHIcSUlv8diJBD2EAMcZGUiekBvywVLQkXLoMQ$) Pages 23281-23299 *(19 pages),* [Permalink](https://urldefense.com/v3/__https:/www.federalregister.gov/d/2021-08802?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!jqS68X-_tLlwEGW4shkEjeLvGvz3AHIcSUlv8diJBD2EAMcZGUiekBvywVJIGTjQtA$)
   2. Abstract: In this document, the Federal Communications Commission (Commission) adopts revised rules to repurpose the lower 45 megahertz of the 5.850-5.925 GHz band (5.9 GHz band) for the expansion of unlicensed mid-band spectrum operations, while retaining the upper 30 megahertz of spectrum in the 5.9 GHz band for intelligent transportation system (ITS) operations. Splitting the 5.9 GHz band between unlicensed and ITS uses is intended to optimize use of the spectrum resources in the 5.9 GHz band to...
   3. The Commission modified the First Report and Order and Order of Proposed Modification released on November 20, 2020, with an Erratum released on December 11, 2020. The Commission released a Second Erratum on February 9, 2021. The corrections from these errata are included in this document.
   4. Effective July 2, 2021, except for Sec. 90.372, which is delayed indefinitely. The Commission will publish a document in the Federal Register announcing the effective date for Sec. 90.372. The incorporation by reference of certain publications listed in the rules is approved by the Director of the Federal Register as of July 2, 2021.
   5. So at that time could start to certify and ship UNII-4 indoor use only devices.
   6. The proceeding: [https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((19%5C-138\*))%20OR%20proceedings.description:((19%5C-138\*))))&sort=date\_disseminated,DESC](https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((19%5C-138*))%20OR%20proceedings.description:((19%5C-138*))))&sort=date_disseminated,DESC)
   7. **Proposed Rules, Use of the 5.850-5.925 GHz Band**, FR Document: [2021-08801](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2021/05/03/2021-08801/use-of-the-5850-5925-ghz-band?utm_source=federalregister.gov&utm_medium=email&utm_campaign=subscription*mailing*list__;Kys!!F7jv3iA!jqS68X-_tLlwEGW4shkEjeLvGvz3AHIcSUlv8diJBD2EAMcZGUiekBvywVJZcbQ_7w$),   
      Citation: 86 FR 23323, [PDF](https://urldefense.com/v3/__https:/www.govinfo.gov/content/pkg/FR-2021-05-03/pdf/2021-08801.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!jqS68X-_tLlwEGW4shkEjeLvGvz3AHIcSUlv8diJBD2EAMcZGUiekBvywVIJqtBPgw$) Pages 23323-23340 *(18 pages),* [Permalink](https://urldefense.com/v3/__https:/www.federalregister.gov/d/2021-08801?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!jqS68X-_tLlwEGW4shkEjeLvGvz3AHIcSUlv8diJBD2EAMcZGUiekBvywVJWlNAKuw$)
   8. Abstract: In this document, the Commission addresses issues remaining to finalize the restructuring of the 5.9 GHz band. Specifically, the Commission addresses: The transition of ITS operations in the 5.895- 5.925 GHz band from Dedicated Short Range Communications DSRC) based technology to Cellular Vehicle-to-Everything (C-V2X) based technology; the codification of C-V2X technical parameters in the Commission's rules; other transition considerations; and the transmitter power and emissions limits, and... 53 seek comments.
   9. This would include UNII-4 band for outdoor use.
   10. **Comments must be filed on or before June 2, 2021 and reply comments on or before June 17, 2021.**
       * 1. We would need to approve any comments next week, 14May, but could maybe squeeze in if approved 21May.
         2. Chair – to post latest FCC FNPRM on 5.9 GHz from Federal Register on mentor.
            1. <https://mentor.ieee.org/802.18/dcn/21/18-21-0055-00-0000-fcc-fnprm-may2021-revisiting-use-of-the-5-850-5-925-ghz-band.docx>
         3. All – provide some initial text if we want to provide comments on the FCC FNPRM on 5.9 GHz.
         4. There are concerns on different interference in the band, depending on point of view, e.g. unlicensed .vs. ITS.
3. Chair presents slide 20, **General Discussion.**
   1. none today
4. Chair presents slide 21, **Actions required.**
   * Chair to add to IEEE 802 Stds table of Frequency bands worksheet on future considerations the UK IR 2030 report should be looked at and how it affects this activity. (in draft of rev 5 of spreadsheet)
   * Chair – to post latest FCC FNPRM on 5.9 GHz from Federal Register on mentor.
   * All – provide some initial text if we want to provide comments on the FCC FNPRM on 5.9 GHz.
   * All – please review the FCC wireless mic action and is there anything .18 should review further or act upon?
   * All – if you have any actionable possibilities to update/improve/etc. our external influence on regulatory bodies, as part of the IEEE 802 restricting, please pass along to the chair. \
   * All – ongoing – bring to RR-TAG info they hear, e.g. different country consultations, on the WRC-23 AIs we are interested in.
5. Chair presents slide 22 Any Other Business
   1. For affiliation confirmation request, note: myProject has a spot for employer (not affiliation); and this does not change the IMAT database. This is one reason why we are confirming what is on voters list is correct for your 802.18 affiliation.
6. Chair presents slide 23, Adjourn.
   1. Next 2weeks, 13/20May21, will be labeled a wireless Interim. **Same call-in and time.**
   2. Next “weekly” teleconference (sched’d to 02sep21): 27May21–*15:00–<15:55* ET
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-17-0000-teleconference-call-in-info.pptx> (new call-in starting 14Jan21)
         1. Also, see back up slide in this agenda.
      2. All late changes/cancellations will be sent out to the 802.18 list server.
   3. Overall IEEE 802 schedule: <http://ieee802.org/802tele_calendar.html>
      1. or only 802.18: [IEEE 802.18 TAG Calendar](https://calendar.google.com/calendar/embed?src=c2gedttabtbj4bps23j4847004%40group.calendar.google.com&ctz=America%2FNew_York)
   4. Adjourn:
      1. Any objection to Adjourn.
      2. None heard, Adjourn at 15:52et
   5. The next face to face meeting is tbd.
   6. **The next IEEE 802.18 (wireless) interim will be electronic in May 2021**
   7. **The next IEEE 802 plenary will be electronic in July 2021**
   8. Thank You
7. Attendance

Voting members:

|  |  |  |
| --- | --- | --- |
| **Auluck** | Vijay | Self |
| **Ecclesine** | Peter | Cisco Systems, Inc. |
| **Holcomb** | Jay | Itron Inc. |
| **Kain** | Carl | USDoT/Noblis |
| **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. |
| **Kerry** | Stuart | OK‐Brit, Self |
| **Levy** | Joseph | InterDigital |
| **Nikolich** | Paul | Self, HPE, Huawei, Wyebot, UNH BCoE, YAS BBV, Origin Wireless |
| **Petrick** | Al | Skyworks |
| **Rolfe** | Benjamin | Blind Creek Associates |
| **Stanley** | Dorothy | Hewlett Packard Enterprise |
| **Yaghoobi** | Hassan | Intel Corporation |
| **Yucek** | Tevfik | Qualcomm |
| **Non-Voting (Nearly Voters, Aspirant Members, Observers & Other Attendees)** | | |
| **Hamilton** | Mark | Ruckus/CommScope |
| **Harrington** | Timothy | UWB Alliance |
| **Pirhonen** | Riku | NXP Semiconductors |
| **Scott** | Andy | NCTA |
| **Sommansson** | Magnus | Qualcomm |
| **Ward** | Lisa | Rohde & Schwarz |