IEEE 802.18

Radio Regulatory-TAG

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| Radio Regulatory Technical Advisory Group Minutes | | | |
| Date: 30sep21 | | | |
| 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, 30sep21

1. Chair calls the meeting to order at 15:02 et
2. Chair presents slides 2 – 6 of 802.18-21/0120r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
3. Chair presents slides 7, the agenda:
   1. Call to Order
      1. Attendance is not on IMAT (w/VC & webex)
      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 w/WP 1A liaison done by xx:25
      4. FCC NPRM on 60GHz done by xx:45
      5. ITU-R WP 5A liaisons
   5. General Discussion Items
   6. Actions required.
      1. WP 5A liaisons
      2. Start EC approvals on 2 approved items
      3. Anything new today
      4. ongoing: WRC-23 AI Viewpoints & Freq. table fill in
   7. AOB
   8. Adjourn

\* will ask if we need to come back to EU and Other regions after the 2 filings and WP 5A liaison review, if there was time.

1. Chair presents slides 8 - 9 Administrative – Motions and more
   1. **Motion: To approve the agenda as presented on previous slide**

Moved by: Mike Lynch (MJLynch Assoc.)

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

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes in document <https://mentor.ieee.org/802.18/dcn/21/18-21-0105-00-0000-minutes-09sep21-rrtag-teleconference.docx> 13-Sep-2021 23:31:30 ET, with editorial privilege for the 802.18 chair.

Moved by: Vijay Auluck (self)

Seconded by: Stephen Palm (Broadcom)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Administrative moving forward** 
     1. For **Nov 2021** Plenary – Vancouver – was addressed on the EC call on 07Sep21.
        1. And it was approved for the Nov 2021 Plenary to be electronic/virtual.
        2. Also approved was the $50 / $75 / $125 meeting fee like we have been doing.
        3. **Early Registration: Until Thursday 11:59 PM UTC October 21, 2021** \* $US 50.00 for all attendees
        4. Standard Registration: Until Friday 11:59 PM UTC November 5, 2021 \* $US 75.00 for all attendees
        5. Late Registration: After Friday 11:59 PM UTC November 5, 2021 \* $US 125.00 for all attendees
        6. Registration Fees are Non-Transferable and Non-Refundable
        7. **REGISTRATION WEBSITE:** [**https://cvent.me/4xn8Ql**](https://urldefense.com/v3/__https:/cvent.me/4xn8Ql__;!!F7jv3iA!mIj7hYJYj38R6agYT--N_zFo-0q_cZUBHvvk_La3dCCECpGaAxZZLZ_IZg53vVm76Q$)
        8. **SCHEDULED SESSIONS**
        9. Meetings will take place between November 5-19, 2021.
        10. The dates and times of specific WG and TAG meetings will be provided by the Working Group Chairs.
        11. Information is available at <https://ieee802.org/802tele_calendar.html>
        12. .18 at this point will be our normal weekly times and call-in, Thursday's 11th and 18th Nov21.
     2. For **Jan 2022** Wireless Interim – Panama
        1. WCSC Sept. call, the Jan 2022 Wireless Interim will be electronic/virtual.
        2. Also approved was the $50 / $75 / $125 meeting fee like coming up at the Sept. Wireless Interim

1. Chair presents slides 10 - 11, **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/>
      1. Remember – BRAN documents can be found in the 802.11 private area documents (daily refresh)
   2. **ETSI –** [<BRAN>](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next meeting #111 27sep-01oct21;** 
      1. Anything to share today? at the end if time, **n**ext week is okay to get an update from the meeting this week
      2. 16sep: One of the 60GHz standards, EN 303 753, rapporteur meeting on 21sep21
         1. Agenda for #111 is on the BRAN site and the 802.11 members area.
      3. 09sep:
         1. EN 301 598 – TVWS – approved and next is EC assessment. then to ENAP and heading for the OJEU.
         2. EN 301 893 5 GHz - had 2 calls, cleaning up the standards. Working to conclude in meeting #112 in Dec.
         3. EN 303 687 6 GHz - have had 3 ad hoc meetings, 1 was on client-to-client communications with some values still being discussed. 2 were on NB FH and discussions continue.
         4. EN 303 753, 1 of the 60GHz stds has a call today/10th and then #2 is 21sep21
         5. EN 303 722 another 60GHz standard is waiting on ENAP.
         6. (not discussed though: EN 302 567 – another 60GHz (.11ad and .11ay) has passed 2nd ENAP, it is now an approved standard, next is to EC to approve for the OJEU.)
         7. Next plenary starts on 27sept. Looking at 4 – 90min sessions each day.
   3. **CEPT–ECC** [**<SE24>**](https://cept.org/ecc/groups/ecc/wg-se/se-24/client/introduction/) **next virtual meeting, #M105 10-12Jan22**
      1. Anything to share today? nothing today
      2. 16sep: ECC report 327 is back from public review and will be will agreed upon at next SE meetings. Proposed changes will be in the regulations, just how is tbd. Expected by early 2022.
      3. 02sep: Looking at UWB radiodetermination applications in 116 – 260GHz for vehicular use.
   4. **CEPT – ECC** [**<SE45>**](https://cept.org/ecc/groups/ecc/wg-se/se-45/client/introduction/) **next call #14 28-29Oct21**
      1. Anything to share today? nothing today
   5. **CEPT – ECC** [**<WGFM>**](https://cept.org/ecc/groups/ecc/wg-fm/client/introduction/)  **next web meeting #100 04-08Oct21**
      1. At the end of the WGFM meeting, 08Oct21, FM 57 will be dissolved.
   6. **CEPT – ECC** [**<FM57>**](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **last call #16 14-15Sep21; next call: \_n/a \_**
      1. Anything to share today?
      2. 16sep: 1) Resolution of public consultation comments on Draft ECC report 330; re: WAS/RLAN use of the 5725-5850MHz band (CEPT work item FM57\_03).
         1. Output of the resolution meeting [TEMP01R3](https://urldefense.com/v3/__https:/cept.org/ecc/groups/ecc/wg-fm/fm-57/client/meeting-documents/file-history/?fid=66192__;!!F7jv3iA!mCTImXbqHUEmXdRE-Le21C7Pv9EfUbqFt7Qxar2NoKB6LSyy2y7L_Bb1pSadyKV1TA$) will be sent to the next WGFM meeting.
         2. 2) A request from WGFM on how to establish a list of countries that either do or do not permit the use of the band 5725-5850 MHz above 25mW EIRP for the purposes of CDC operation.
         3. [TEMP02R2](https://urldefense.com/v3/__https:/cept.org/ecc/groups/ecc/wg-fm/fm-57/client/meeting-documents/file-history/?fid=66233__;!!F7jv3iA!mCTImXbqHUEmXdRE-Le21C7Pv9EfUbqFt7Qxar2NoKB6LSyy2y7L_Bb1pSbuZpWorA$) approved at FM57 and sent to WGFM in response detailing a template that could be used as part of an ECO table for enabling CDC operation whilst protecting incumbent services in countries where CDC is not allowed.
         4. The work that FM57 was created for (e.g. 6GHz Regulation and 5.8GHz ECC report) is now complete and the FM57 group will be closed at the next WGFM meeting.
   7. nice site: CEPT 6 GHz status across the countries: <https://docdb.cept.org/implementation/16737>
2. Chair presents slides 13, **Other regions (outside EU-Stds and USA), items to share**
   1. Anything to share today? nothing heard
   2. **reminders**
   3. **Malaysia MCMC has recently begun a public consultation that seeks public view on the possibility of allocating 6 GHz spectrum to unlicensed use.**
      1. Malaysia MCMC has recently begun a public consultation that seeks public view on the possibility of allocating 6 GHz spectrum to unlicensed use.
         1. Deadline for submitting comments is 5:00pm Selangor Darul Ehsan local time, **October 11, 2021. (23sept out of .18)**
         2. For details, you would refer to the 15-page document at:
         3. <https://www.mcmc.gov.my/skmmgovmy/media/General/pdf/PC_WiFi.pdf>
         4. Consultation is in mentor: <https://mentor.ieee.org/802.18/dcn/21/18-21-0103-00-0000-malaysia-mcmc-consultation-wlan-in-the-6ghz-band.docx>
      2. Brazil – ANATEL - Public Consultation 46
         1. This public consultation aims to reassess the limits of undesirable emissions from very low power devices operating in the 5,925 MHz to 7,125 MHz band.
         2. The deadline for submission of comments is 30th November 2021. For more information on this public consultation, please refer to this link and is in Portuguese language only.
3. Chair presents slides 13-16, **ITU-R items to share**
   1. Anything else to share? just liaisons.
   2. **WRC-23 agenda items, the list is on the ITU-R website at:** 
      1. <https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/wrc-23-studies.aspx> (updated 26Aug20)
         1. <https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0041PDFE.pdf>
         2. <https://mentor.ieee.org/802.18/dcn/20/18-20-0107-01-0000-res-811-wrc-19-wrc-23-agenda-items.docx>
   3. **IEEE 802 viewpoints on WRC-23 agenda items.** 
      1. Doc for viewpoints updated (actions items in notes on this slide in agenda): <https://mentor.ieee.org/802.18/dcn/21/18-21-0039-01-0000-ieee-802-viewpoints-on-wrc-23-agenda-items.pptx>
      2. Soon, will review actions noted at the July Plenary. y.
      3. Reference:
         1. 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
   4. For miscellaneous links for ITU-R, SGs, WPs and calendars, see back up slides later.
   5. **Liaison from ITU-R WP5A re: M.2121 ITS, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0059-00-0000-request-for-input-itu-r-m-2121-its.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0059-00-0000-request-for-input-itu-r-m-2121-its.docx)
      1. WP 5A next \_\_meeting is 15-26nov21 (probably upload to WP5A 02nov21; out of .18 then 15oct for EC 10 day)
      2. Document 59 is assigned to TGbd for consideration, as the document relates to ITS topics.
      3. Is there a status from TGbd? nothing heard, **will drop this agenda item today, 30sep.**
   6. **Liaison from ITU-R WP5A re: M.1801-2, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0058-00-0000-request-for-input-itu-r-m-1801-2.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0058-00-0000-request-for-input-itu-r-m-1801-2.docx)
   7. **Liaison from ITU-R WP5A re: M.1450-5, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0057-00-0000-request-for-input-itu-r-m-1450-5.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0057-00-0000-request-for-input-itu-r-m-1450-5.docx)
      1. WP 5A next meeting is 15-26nov21 (probably upload to WP5A 26oct21; **out of .18 then 07oct** for EC 10 day)
         1. **Deadline for contribution 1600 hours UTC Monday, 8 November 2021**
      2. Documents 57 and 58 are assigned to the ITU ad hoc group for processing. ad hoc has met on these.
      3. **and from there the liaison contributions have been uploaded now, .18 will vote to approve next week 07oct.**
      4. <https://mentor.ieee.org/802.18/dcn/21/18-21-0116-00-0000-proposed-modifications-to-itu-r-m-1450-5.docx>
      5. <https://mentor.ieee.org/802.18/dcn/21/18-21-0117-00-0000-proposed-modifications-to-itu-r-m-1801-2.docx>
   8. **Liaison from ITU-R WP 1A re: Light Communications, see** [**https://mentor.ieee.org/802.18/dcn/21/18-21-0080-00-0000-request-for-information-itu-r-wp-1a.docx**](https://mentor.ieee.org/802.18/dcn/21/18-21-0080-00-0000-request-for-information-itu-r-wp-1a.docx)
      1. WP 1A next e-meeting is 03-12nov21 (probably upload to WP5A 20oct21; out of .18 then 08oct for EC 10 day)
         1. **Deadline for contributions 1600 hours UTC Wednesday, 27 October 2021**
      2. **.11 & .15 worked on a responses** 
         1. <https://mentor.ieee.org/802.11/dcn/21/11-21-1457-02-0000-liaison-response-to-itu-r-wp-1a-on-vlc-standards.docx>
         2. <https://mentor.ieee.org/802.15/dcn/21/15-21-0434-01-0000-liaison-response-to-itu-r-wp-1a-on-vlc-standards.docx>
      3. **and a draft merged version it is now updated in .18 mentor:** <https://mentor.ieee.org/802.18/dcn/21/18-21-0109-02-0000-liaison-response-to-itu-r-wp-1a-on-vlc-standards.docx>
         1. Note: a few more editorial edits were done to make rev03, to have a clean copy, rev04, for approval and LMSC/EC.
         2. Will do final review and vote on it today, 30sep21, to send to LMSC/EC for their monthly teleconference next week, 05oct21.
         3. During review a few more editorial updates, marked up is r05 for .18 to approve. Then chair will make a clean r06 for EC ballot.

* 1. **ITU-R liaisons – Motion for WP 1A liaison**
     1. **Motion:** Approve ITU-R WP 1A Liaison response in <https://mentor.ieee.org/802.18/dcn/21/18-21-0109-05-0000-liaison-response-to-itu-r-wp-1a-on-vlc-standards.docx>, For review and approval by the LMSC (EC) for submission to ITU-R WP 1A via ITU-R Liaison before contribution deadline for WP 1A’s next meeting. With the Chair of 802.18 authorized to make editorial changes, as necessary.
        1. **Voters: 20** including chair
        2. **\_\_28\_ on the call**
        3. **Moved by: Stuart Kerry (Ok Brit/Self)**
        4. **Seconded by: Vijay Auluck (Self)**
        5. **Discussion? none**
        6. **Vote: \_19\_Y / \_0\_N / \_0\_A**
        7. **Motion - Passes**

1. Chair presents slides 17 - 18, **FCC NPRM on 60GHz on Radar Sensing Technology**
   1. Allowing Expanded Flexibility and Opportunities for Radar Operation in the 57-64 GHz band
      1. Proceeding: [https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((21%5C-264\*))%20OR%20proceedings.description:((21%5C-264\*))))&sort=date\_disseminated,DESC](https://www.fcc.gov/ecfs/search/filings?q=((proceedings.name:((21%5C-264*))%20OR%20proceedings.description:((21%5C-264*))))&sort=date_disseminated,DESC)
      2. It is on Mentor: r02 is the July OET versions (r01 is the later Federal Register version). <https://mentor.ieee.org/802.18/dcn/21/18-21-0079-02-0000-fcc-nprm-allowing-expanded-flexibility-for-radar-operation-in-57-64-ghz-band.docx>
      3. Reply comments due 18Oct21, draft reply comments are at: <https://mentor.ieee.org/802.18/dcn/21/18-21-0110-01-0000-reply-comments-of-ieee-802-60-ghz-motion-sensing-fcc-nprm-et-21-264.docx>
   2. **Had ad hocs this week. Will review latest draft with plan to vote on it today, 30sep21.**
   3. **During review a few more editorial updates, marked up is r07 for .18 to approve. Then chair will make a clean r08 for EC ballot.**
   4. **A timeline to work on:** 
      1. 21/22, 27,28,29Sept- ad hoc(s) to review/refine,.
      2. **29Sept – Wednesday – goal to have a final draft on list server**
      3. **30Sept - .18 approves**
      4. 01Oct - get approval to start EC ballot
      5. 12 oct – EC ballot now closed, make revision to upload and get permission to upload by 18oct.
      6. **Motion:** Approve reply comments in <https://mentor.ieee.org/802.18/dcn/21/18-21-0110-07-0000-reply-comments-of-ieee-802-60-ghz-motion-sensing-fcc-nprm-et-21-264.>[docx](https://mentor.ieee.org/802.18/dcn/21/18-21-0110-01-0000-reply-comments-of-ieee-802-60-ghz-motion-sensing-fcc-nprm-et-21-264.docx); to FCC NPRM (ET Docket No. 21-264) on Amendment of Section 15.255 of the Commission’s Rules for 60GHz Radar Sensing Technology. For review and approval by the LMSC (EC) for uploading to the FCC on or before 18Oct2021 or latest reply comment deadline. With the Chair of 802.18 authorized to make editorial changes, as necessary.
         1. **Voters:** \_20\_ including chair\_
         2. \_28\_ on the call
         3. **Moved by: Mike Lynch (MJLynch Assoc.)**
         4. **Seconded by: Dorothy Stanley (HPE)**
         5. **Discussion? can have further discussions or ex parte if more input comes up later**
         6. **Vote: \_\_\_ \_19\_ Y / \_0\_N / \_0\_ A**
         7. **Motion - Passes**
2. Chair presents slide 19, **General Discussion Items**
   1. **This morning:** 
      1. **The September 2021 FCC open commission meeting looks to be full, here are 2 of note.**
      2. [**https://www.fcc.gov/news-events/events/2021/09/september-2021-open-commission-meeting**](https://www.fcc.gov/news-events/events/2021/09/september-2021-open-commission-meeting)
   2. **Authorizing 6 GHz Band Automated Frequency Coordination Systems**
      1. **Update: The Public Notice was approved Tuesday ahead of the Open Meeting.** [**<Latest link to adopted PN>**](https://www.fcc.gov/document/fcc-requests-6-ghz-automated-frequency-coordination-proposals)
      2. The Commission will consider a [Public Notice](https://www.fcc.gov/document/authorizing-6-ghz-band-automated-frequency-coordination-systems) beginning the process for authorizing Automated Frequency Coordination Systems to govern the operation of standard-power devices in the 6 GHz band (5.925-7.125 GHz). (ET Docket No. 21-352)
   3. **Spectrum Requirements for the Internet of Things**
      1. **Update: The NOI was approved just before the Open Meeting so pulled from agenda. At time of Open Meeting still not showing adopted.**
      2. he Commission will consider a [Notice of Inquiry](https://www.fcc.gov/document/spectrum-requirements-internet-things) seeking comment on current and future spectrum needs to enable better connectivity relating to the Internet of Things (IoT). (ET Docket No. 21-353)
         1. <https://docs.fcc.gov/public/attachments/DOC-375610A1.pdf>
         2. In mentor: <https://mentor.ieee.org/802.18/dcn/21/18-21-0108-00-0000-fcc-pn-on-spectrum-for-the-internet-of-things.docx>
      3. **Some questions maybe of interest to IEEE 802, e.g.,**
         1. please refer to portions of paragraph 6 re IEEE: Standards groups such as 3GPP, IEEE, and others are also involved with IoT development. Are these standards providing sufficient guidance for IoT implementation in already existing spectrum bands?
            1. If the growing need for IoT connectivity is not being met with the current and planned licensed spectrum resources, what steps can the Commission take to address this important use in the future?
         2. please refer to paragraphs 10 and 11 asking the role of unlicensed spectrum and whether additional unlicensed spectrum should be considered.
3. Chair presents slide 20, **General Discussion Items – ongoing - MSGs 6 GHz**
   1. The WInnforum “6 GHz Committee”, all groups meet every 2 weeks except interference-weekly (168 people)
      1. <https://www.wirelessinnovation.org/6ghz-multistakeholder-committee>
      2. For access to documents from the committee, can request to be an observer from MSG below.
      3. New org: 2 (now) focus areas:
         1. ) AFC Functional Specification -WG – includes: Interference-TG, Incumbent Info-TG, security (new) and Protocols 3GPP-TG
         2. 2) AFC Test and Certification-WG
      4. Anything to share this week? ran out of time, next week
      5. **16sep:** The members of the Wireless Innovation Forum have balloted and approved a new document entitled “Recommendations for Addressing Blank, Uncollected, Erroneous, or Conflicting Database Elements for Incumbent Systems in the U.S. U-NII 5 & 7 Bands for the Purpose of Automated Frequency Coordination Systems” (document number WINNF-RC-1010-V1.0.0). This document and the associated appendix are publicly available here: <https://6ghz.wirelessinnovation.org/work-group-products>
   2. 2. From the FCC R&O, an informal MSG (“Group”) has also been formed. (260+ people)
      1. <https://groups.wirelessinnovation.org/wg/6MSG/dashboard>.
      2. Work stream 1-interference protection and resolution (CableLabs, EPRI, Lake Cty, APCO) Meets biweekly, from 28Jan21-10:00 et,
      3. Work stream 2 - correct incumbent data (ULS) (Comsearch, APCO)
      4. Work stream 3 - AFC and how it provides protection, etc. (Charter, Google, UTC)
      5. Overall Co-chairs: NPSTC, UTC, WFA, WISPA.
      6. Anything to share this week? ran out of time, next week
      7. **23sep:** Work stream 1 – draft final report is still in 0.x revs, indicating the final v1.0 is a ways out and the schedule is heading right.
         1. This group met last week 24Sept21
4. Chair presents slide 21, **General Discussion Items – ongoing - Table of IEEE 802 Stds Frequency Ranges**
   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/21/18-21-0036-08-0000-frequency-table-template.xlsx>
   4. **From ad hoc call on 28sept21**
      1. Updated most of the 802.15 cells/rows, less UWB ones.
      2. And proposing to swap columns D&E to get the clause numbers for the current standard by the current standards. and clarified what goes in the clause cell.
   5. The activity is entering the phase to fill in the sheet now, so more intense and time consuming.
   6. The **next meeting will be 26oct21.** (call-in in backup slides here)
5. Chair presents slide 22, **Actions Required**
   * **Chair prep and send WP 1A liaison to LMSC/EC for 05Oct agenda.**
   * **Chair prep and start 10-day LMSC/EC ballot for FCC NPRM on 60 GHz.**
   * **All – review both WP 5A liaisons for vote on 07Oct21.**

ongoing:

* + For IEEE 802 viewpoints on WRC-23 AIs, reach out to those identified, looking for input on the viewpoints.
  1. **Proactive Spectrum Sharing – Contact Rich Kennedy if you can help or have inputs. or want to join the task force.**

1. Chair presents slide 23 Any Other Business
   1. none heard
2. Chair presents slide 24, Adjourn.
   1. **Next “weekly” teleconference (sched’d to 13jan22): 07oct –*15:00–<15:55* et** 
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-19-0000-teleconference-call-in-info.pptx>
      2. Also, see back up slide in the agenda.
      3. All late changes/cancellations will be sent out to the 802.18 list server.
   2. Overall IEEE 802 schedule: <http://ieee802.org/802tele_calendar.html>
      1. or 802.18’s: [IEEE 802.18 TAG Calendar](https://calendar.google.com/calendar/embed?src=c2gedttabtbj4bps23j4847004%40group.calendar.google.com&ctz=America%2FNew_York)
   3. Adjourn:
      1. Any objection to Adjourn.
      2. None heard, Adjourn at 15:58et
   4. **The next IEEE 802 plenary will be electronic in November 2021**
   5. **The IEEE 802.18 (wireless) interim will be electronic in Jan 2022**
   6. Thank You
3. Attendance

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
|  | **Voting Attendees:** | |  | **30-Sep** |
| 1 | **Auluck** | Vijay | Self | **x** |
| 2 | **Boldy** | David | Broadcom Corporation | **x** |
| 3 | **Ecclesine** | Peter | Cisco Systems, Inc. | **x** |
| 4 | **Holcomb** | Jay | Itron Inc. | **x** |
| 5 | **Jones** | Vincent Knowles IV | Qualcomm Incorporated | **x** |
| 6 | **Kain** | Carl | USDOT, Noblis, Inc. | **x** |
| 7 | **Kenney** | John | TOYOTA InfoTechnology Center U.S.A. | **x** |
| 8 | **Kerry** | Stuart | OK‐Brit, Self | **x** |
| 9 | **Lansford** | James | Qualcomm Incorporated | **x** |
| 10 | **Levy** | Joseph | InterDigital, Inc. | **x** |
| 11 | **Lynch** | Michael | MJ Lynch & Associates, LLC. | **x** |
| 12 | **Palm** | Stephen | Broadcom Corporation | **x** |
| 13 | **Petrick** | Al | Skyworks Solutions Inc. | **x** |
| 14 | **Pirhonen** | Riku | NXP Semiconductors | **x** |
| 15 | **Rolfe** | Benjamin | Blind Creek Associates | **x** |
| 16 | **Shellhammer** | Steve | Qualcomm Incorporated | **x** |
| 17 | **Sherlock** | Ian | Texas Instruments | **x** |
| 18 | **Stanley** | Dorothy | Hewlett Packard Enterprise | **x** |
| 19 | **Yaghoobi** | Hassan | Intel Corporation | **x** |
| 20 | **Yucek** | Tevfik | Qualcomm Incorporated | **x** |
|  |  |  |  |  |
|  | **Non-Voting Attendees:** | |  |  |
| 1 | **Aldana** | Carlos | Facebook | **x** |
| 2 | **da Silva** | Claudio | Facebook | **x** |
| 3 | **Eitan** | Alecsander | Qualcomm Incorporated | **x** |
| 4 | **Fang** | Yonggang | MediaTek | **x** |
| 5 | **Hamilton** | Mark | Ruckus/CommScope | **x** |
| 6 | **Jeffries** | Timothy | FutureWei Technologies, Inc. | **x** |
| 7 | **Norman** | Alan | Facebook | **x** |
| 8 | **Tian** | Bin | Qualcomm Incorporated | **x** |