IEEE 802.18

Radio Regulatory-TAG

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Radio Regulatory Technical Advisory Group Minutes | | | | |
| Date: 16-23 Jul 20 | | | | |
| Name | Affiliation | Address | Phone | Email |
|  |  |  |  |  |
| Author and Officer presiding: | | | | |
| Jay Holcomb,  Chair, RR-TAG | Itron | Liberty Lake, (Spokane) WA | +1(509) 891-3281 | jholcomb@ieee.org |

Abstract

Minutes of the IEEE 802 RR-TAG Electronic Plenary for July 2020 (yul).

These are the Minutes of the IEEE 802 RR-TAG Electronic Plenary Thursdays, 16 and 23 Jul 20

Chair calls the meeting to order at 15:05 ET.

1. Chair presents slides 2 – 6 of 802.18-20/0102r01, the call to order and administrative items
   1. Includes IEEE 802 meeting and participant’s guidelines and requirements.
2. Chair presents slides 7, of 802.18-20/0102r01, the agenda:
   1. **Call to Order**
      1. IMAT-Attendance server is open
   2. **Administrative items**
      1. Someone to take some notes, Peter E.
      2. **Attendance and request queue in chat window, Stuart K**
   3. **Approve agenda & last minutes**
   4. **Agenda items, both weeks included**
      1. Elections (16th)
      2. Approve teleconferences (16th)
      3. EU & ITU-R Items (both weeks)
      4. APAC status (16th)
      5. FCC 6 GHz (both weeks)
      6. FCC 70/80/90 GHz (both weeks)
      7. Input on moving forward for EC (16th)
   5. **Additional items for next Thursday (23Jul20)**
      1. General Discussion Items
   6. **Actions required**
      1. Possibly FCC 6GHz and/or 70/80/90 GHz inputs for comments
      2. Anything new from this session
   7. **AOB and Adjourn**
3. Chair presents slides 8 - 10 Administrative – Motions and more
   1. **Motion:** To approve the agenda as presented on previous slide

Moved by: Mike Lynch (MJLynch Assoc.)

Seconded by: Hassan Yaghoobi (Intel)

Discussion? None

Vote: Approved by unanimous consent

* 1. **Motion:** To approve the minutes from the IEEE 802.18 Wireless Interim, 14-16 Jan 2020 in document <https://mentor.ieee.org/802.18/dcn/20/18-20-0004-00-0000-minutes-sna-interim-14-16jan2020-rr-tag.docx> 21-Jan-2020 15:38:16 ET, with editorial privilege for the 802.18 chair

Moved by: Stuart Kerry (Ruckus/CommScope)

Seconded by: Stephen Palm (Broadcom)

Discussion? None

Vote: Approved by unanimous consent

* + 1. As RR-TAG does in plenaries, takes attending BOTH meetings/calls (16th and 23rd) for attendance credit.
  1. **Administrative moving forward**
     1. Travel Survey results:
     2. <https://mentor.ieee.org/802-ec/dcn/20/ec-20-0114-02-00EC-ieee-802-session-attendee-survey-results.xlsx>
     3. For September 2020 Wireless Interim (Atlanta), the Wireless Chairs met and have postponed this interim to first available NAM wireless slot. (Today it is Jan 2024)
        1. Per 802 Op Manual section 5, we can have electronic meetings in between Plenaries, but such meetings do not count for participation credit.
     4. For November 2020 Plenary (Bangkok), the LMSC call on 07Jul20 (Tuesday) approved to cancel the venue for the Nov 2020 Plenary in Bangkok.
        1. This allows then for an electronic plenary, that can be worked on to setup over the next couple of months.
  2. In Memoriam
     1. **A few moments for two IEEE 802 contributors.**
     2. **George Vlantis was a contributor to 802.11 for many years, particularly PHY amendments and regulatory.**
        1. [https://www.legacy.com/obituaries/mercurynews/obituary.aspx?n=george-a-vlantis&pid=196471001&fhid=24141](https://www.legacy.com/obituaries/mercurynews/obituary.aspx?n=george-a-vlantis&pid=196471001&fhid=24141%20)
        2. <https://www.limacampagnamortuaries.com/obituaries/George-A-Vlantis?obId=16837510>
     3. **Leo Monteban was a contributor in 802.11 early on in the ‘90s and early 2000s.** 
        1. <https://www.nbbclubsites.nl/club/2023/nieuws/1101604>

1. Chair presents slides 11-13, Officer Elections
   1. **Mostly from January Wireless Interim (Blue items added now):** 
      1. LMSC P&P sections 3.1 and 4.0: 802 EC election/appointments
         1. all 802 executive committee members are elected or appointed and confirmed at the first Plenary session of each even numbered year.
      2. If anyone wishes to be considered for the 802.18 Chair, Vice Chair or the appointed positions
         1. Please send nominations to the Chair before Friday 13 March end of day ET.
         2. (Note: the chair re-opened nominations from 15 June 20 to 01 July 20.)
         3. 802.18 elections will be at the Tuesday meeting. (The first meeting of the Plenary)
      3. All potential EC members, Chair and Vice Chairs
      4. Please remember to submit your letter of endorsement and disclosure of affiliation to the IEEE 802 Recording Secretary, John D’Ambrosia, as soon as possible, but no later than the call to order of the March 2020 opening EC meeting. (Will work this out.)
      5. For Chair, Vice Chair and Secretary, you need to be a member of the IEEE SA
      6. Responsibilities / expectations for all offices are in the back up slides in this slide deck
   2. **Chair nominees**
      1. Jay Holcomb (Itron)
      2. \_\_\_
   3. **Vice-chair nominees**
      1. With no nominees at this time, will open for VC nominations.
      2. None heard
   4. **Secretary volunteers, temporary acceptable.**
      1. Any volunteers?
      2. None heard
   5. Any objections to a roll call by voting members only, This was okay by all.
      1. or do a private chat vote to Stuart Kerry as returning officer.
   6. Point of order, at this time Stuart Kerry (OK-Brit, Ruckus/CommScope) is delegated to run the ballot.
      1. 802.18 Candidate(s) viewpoints on going forward & answers any questions or suggestions
   7. **Motion:** To approve Jay Holcomb (Itron) as Chair of the RR-TAG (IEEE 802.18) for the next two years, through the first IEEE 802 Plenary of 2022.

Moved by: Peter Ecclesine (Cisco Systems)

Seconded by: Stuart Kerry (CommScope)

Discussion?

**Vote: \_27\_\_Y / \_0\_N / \_0\_A / \_19 (Pool voters not present)**

**Total # present at time of vote: 34:**

* 1. Point of order, at this time Jay Holcomb (Itron) will resume chair of the 802.18 Plenary sessions.

1. Chair presents slide 14, Teleconferences
   1. **Motion: The 802.18 Chair or Chair designee is directed to conduct, as necessary, teleconferences on Thursdays at 15:00 ET through 07 January 2021**

Moved by: Stuart Kerry (CommScope)

Seconded by: Mike Lynch (MJLynch Assoc.)

Discussion? None

Passed by Unanimous Consent

1. Chair presents slides 15-16, **EU items to share**
   1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next call, meeting #107, 24Sep-02Oct20**
      1. 802.11 has been sent a liaison on EN 303 687, compromise that a single Energy Detect defined, dependent on output power of the device.
      2. 2 new Wis: TS Doc. on multi-Access Point performance, and
         1. 60 GHz which brought up some discussions. – there are 3 Harmonized Standards now,
         2. One is to extend to 71GHz.
      3. There will be some Go-To meetings coming up.
      4. Electronic meetings planned thru the end of the year.
         1. For now next year planning is for face2face meeting, of course depending on conditions, membership and government restrictions
   2. **ETSI - ERM -** [**<TG-11>**](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next call, SRDoc #12 - 30Jul20**
      1. 802.11 coex SC LS response to ETSI ERM TG11 is in [11-20-0861-06](https://urldefense.com/v3/__https:/mentor.ieee.org/802.11/dcn/20/11-20-0861-06-coex-proposed-ls-to-etsi-erm-tg11-in-response-to-a-ls-wrt-ieee-802-11-section-in-tr-103-665-2-4-ghz-srdoc.docx__;!!F7jv3iA!hFN99vVTd6sO8BtDEooFCbyAQdn8cTQW8AC02pn2dLOUqHZJyTNRe6utAq5VhDxoYg$).
   3. **CEPT – ECC** [**<FM57>**](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next call, meeting #11, 08-10Jul20; (#12-05-07Oct20)**
      1. Working new WIs. 1) update 5 GHz for WRC-19 2) examine EC decision (04)08 RLAN to use 5150-5725, 3) 5.8 GHz band 4) ECC asking WGFM about *protection to urban rail.*
      2. Moving to correspondence (with more in Sept) and working to address these for 05Oct20 call. Time will be quick to finish up some by March of 2021.
      3. Public consultations are out now till 04 Sep.
         1. Draft CEPT report 75 (Report B) and ECC Decision (20)01 (rules of lower 6 GHz band)
2. Chair presents slide1 17, **ITU-R items to share**
   1. Meeting 36# of WP 5D planned on 5-16 October 2020, will be held electronically.
      1. It is also anticipated that meeting 36#bis of WP 5D planned for 17-19 November 2020 will also be a virtual meeting
   2. We have not gotten back to reviewing the WRC-23 agenda items that a member did a nice job with summarizing them at the end of [<18-19-0152>](https://mentor.ieee.org/802.18/dcn/19/18-19-0152-00-0000-summary-of-the-decisions-of-selected-agenda-items-in-wrc-19.pptx).
      1. Is anyone available to start a focused document on these, and/or what is the timing we should target to work on them? Never too early.
      2. (Chair to confirm where WRC-23 agenda items are on the ITU Site, also)
      3. A member will work on a list, over some time, we can work off of for an initial list of agenda items that IEEE 802 may have an interest in to form some viewpoints.
3. Chair presents slide 18, APAC status
   1. **Every 2-month APAC update:** 
      1. [https:/mentor.ieee.org/802.18/dcn/20/18-20-0106-00-0000-apac-update-july-2020.pptx](https://mentor.ieee.org/802.18/dcn/20/18-20-0106-00-0000-apac-update-july-2020.pptx)
   2. **Note: email to the listserver just came out (today) on:**
      1. Taiwan MOTC has begun a consultation that considers allowing licensed-exempt usage in the 5925 - 7125 MHz band.
      2. For details, please refer to
         1. <https://www.motc.gov.tw/ch/home.jsp?id=15&parentpath=0,2&mcustomize=multimessages_view.jsp&dataserno=202006180001&aplistdn=ou=data,ou=bulletin,ou=chinese,ou=ap_root,o=motc,c=tw&toolsflag=Y&imgfolder=img%2Fstand>
      3. The comment submission deadline is August 7, 2020.
4. Chair presents slides 19 -21, **FCC R&O and FNPRM 6GHz**
   1. CHAIRMAN PAI PROPOSES NEW RULES FOR THE 6 GHz BAND, UNLEASHING 1,200 MEGAHERTZ FOR UNLICENSED USE News Release: [Docx](https://urldefense.proofpoint.com/v2/url?u=https-3A__docs.fcc.gov_public_attachments_DOC-2D363451A1.docx&d=DwMFAg&c=pqcuzKEN_84c78MOSc5_fw&r=z8R-nWJ8GIxwjOjNKhEFByb-tZ6XE3GZXWSggNdVo-w&m=qkYmo1P6XmH1YvH1UkP-tyoCfcURwF2UYPYmrj-ahdc&s=C2AkcvEPrUX932nUH8F7u7RFWhncPxXDubaY_WcjOgY&e=)
      1. The Report and Order authorizes two different types of unlicensed operations: standard-power in 850-megahertz of the band and indoor low-power operations over the full 1,200-megahertz available in the 6 GHz band. An automated frequency coordination system would prevent standard power access points from operating where they could cause interference to incumbent services.
      2. Preceding:
         1. <https://www.fcc.gov/ecfs/search/filings?proceedings_name=18-295&sort=date_disseminated,DESC>
      3. R&O is effective 27July20,
         1. <https://www.federalregister.gov/documents/2020/05/26/2020-11236/unlicensed-use-of-the-6-ghz-band?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email>
      4. **APCO, AT&T and EEI have filed for a Stay,** see 18-295 proceeding link above for more.
         1. 30 days for FCC to rule on these. Several oppositions to the stay and several for the stay.
         2. All 3 will go to First Circuit Court of appeals. Expect it will be sooner, tbd.
      5. **There have been several Petitions of Reconsiderations filed** 
         1. And a Public Notice that Oppositions must be filed within 15 days once in Fed. Reg. for 4 petitions, APCO, CTIA, FWCC, Verizon.
         2. **FR Document:** [2020-14711](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2020/07/14/2020-14711/petitions-for-reconsideration-of-action-in-proceedings?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!l9xn6p39XXOuKE7KYtvi3qjt_DCUzFLaf6_pkC-ldXqy9hDrcDy9Hp5L6uqUaLkljw$); Oppositions by 29Jul20 and replies by 10Aug20
      6. **RR-TAG call on 30Jul20 will have more of where these things are.**
   2. **FCC R&O 6 GHz – MSG**
      1. There is One - Mutli-stake holder group (MSG) getting together 31 July 20 to discuss 6 GHz and what happens in the band.
         1. Focus is on formation of the group at this first call with a steering group,
         2. FCC will be in attendance.
         3. The is just a start of many meetings and calls and activities.
      2. WInn Forum and WFA are the initial organizations.
      3. Around 20 other organization and members of other organizations are coming on board and participating in this launch on the 31st (1300-1700 et)
         1. Working out how to approach this with rules and proper procedures with all the different organizations.
         2. Stakes are getting higher……

* + 1. **RR-TAG call on 06Aug20 will have more of MSG status.**
  1. **FNPRM as approved on 24 Apr 20 is on Mentor:**
     1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0062-02-0000-fcc-r-o-fnprm-promoting-unlicensed-use-of-the-6ghz-band-et-18-295.docx> 31 Seek Comments
     2. In Federal Register today (28th): <https://www.federalregister.gov/documents/2020/05/28/2020-11320/unlicensed-use-of-the-6-ghz-band?utm_campaign=subscription+mailing+list&utm_source=federalregister.gov&utm_medium=email>
     3. Comments due: 29June20; Many comments filed
        1. Need time to go through them.
        2. Possible common points for all of IEEE 802 to consider.
     4. Reply Comments due: 27July20.
        1. For the 10day LMSC ballot, would have had to approve today, 09July20.
        2. There is LMSC closing meeting on Friday 24July20 we could try for.
        3. **No contributions to date, so will pass on reply comments and just monitor the FNPRM.**

1. Chair presents slides 22-24, **Modernizing and Expanding Access to the 70/80/90 GHz Bands** 
   1. FR Document: [2020-14064](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2020/07/06/2020-14064/modernizing-and-expanding-access-to-the-708090-ghz-bands?utm_source=federalregister.gov&utm_medium=email&utm_campaign=subscription*mailing*list__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ446zt_D9dA$) Citation: 85 FR 40168 [PDF](https://urldefense.com/v3/__https:/www.govinfo.gov/content/pkg/FR-2020-07-06/pdf/2020-14064.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ444UBbFZGw$) Pages 40168-40181 *(14 pages)* [Permalink](https://urldefense.com/v3/__https:/www.federalregister.gov/d/2020-14064?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ447oinZQTg$)
   2. Proceeding 20-133:  <https://www.fcc.gov/ecfs/search/filings?proceedings_name=20-133&sort=date_disseminated,DESC>
   3. DATES:
   4. Comments are due on or before August 5, 2020.
      1. .18 would have to approve next week – 23July20.
   5. Reply comments on or before September 4, 2020.
   6. Proposed rule: <https://mentor.ieee.org/802.18/dcn/20/18-20-0104-02-0000-fcc-proposed-rule-modernizing-and-expanding-access-to-the-70-80-90-ghz-bands.docx>
      1. Uses both seek and seeks comments, so 63 places for these combined.
      2. Found a version of NPRM that is a more readable format, see r02 on mentor.
   7. See next, initial feedback from RR-TAG is we need to look at this more and maybe comment.
   8. This is E-Band; With new technologies on sharing (from original plans in 2005), could something be done in these three bands?
   9. Could we look to expand our standards above 71 GHz, e.g. in P802.11ay?
      1. Would only be a maintenance activity
   10. 802.15.3e would be able to add channels also as a maintenance effort.
   11. An opinion is so far it seems the FCC is not favoring IEEE 802 standards; we should review further and speak up.
   12. Note, a member has done an excellent summary of the band, rules and etc. It can greatly help guide us if we can get some comments together. We stepped through.
   13. <https://mentor.ieee.org/802.18/dcn/20/18-20-0105-01-0000-introduction-to-fcc-20-76-a1-modernizing-and-expanding-access-to-the-70-80-90-ghz-bands.pptx>
       1. Federal Mobile includes aero and helicopters,
       2. NTIA coordination might take six months for any link.
       3. Coordination is complicated
       4. FCC 05-45 was the rule
       5. Radiolocation – very open e.g. radio imaging from helicopters, some types of radar
   14. Could start with suggestion to start with 57-71 GHz rules and move up.
   15. To keep a more harmonized channel plan then to extend the channelization above 71GHz, e.g. for aircraft.
   16. A member offered to put a paragraph or so together.
   17. Chair will setup some ad hocs for next Tuesday and Wednesday (21-22Jul20) to have standing by.
2. Chair presents slides 25 and 26, **IEEE 802 Moving Forward #2**
   1. From the LMSC/EC opening meeting, would like feedback on a couple of topics from the membership about moving IEEE 802 forward.
   2. **#1 – What would be the best days (weeks) for the November 2020 electronic plenary planning?** 
      1. Original week in Bangkok was 08 – 13 November 2020.
      2. USA holiday 26-27 Nov20-Thu/Fri. Holiday’s elsewhere to consider? \_\_\_\_\_\_
      3. A proposal was sent to EC for Friday 06Nov20 to Thursday 19Nov20.
      4. **Stay (start) with the announced dates, as coordinated with other organization.**
      5. Maybe 5, 8 or 11 weekdays

* 1. **#2 - With 3 plenaries cancelled this year and with CoVid-19 duration not known, the LMSC/EC is starting discussion on IEEE 802 finances overall.** 
     1. With that, what is the willingness to pay a registration fee (<$100) for participation in electronic meetings held in place of plenary and interim face-to-face meetings.
     2. Qualify with a range of $s.
  2. **#3 – Once the pandemic situation has passed, what do you perceive as the reasonable number of face-to-face meetings per year, both plenary and interims?** 
     1. E.g. 2 plenary face-2-faces and 2 interim face-2-faces, then 1 electronic each.
     2. 1 – as is, 3 plenaries and 3 interims
     3. 2 - 2 plenary face-2-faces and 2 interim face-2-faces, then 1 electronic each.
     4. 3 - 1 plenary face-2-faces and 2 interim face-2-faces, then 2 electronic each.
     5. – what about split, in previous attempts did not work well, before.
  3. **#4 – What do people consider for a target participation rate by WG / TAG membership for effective face-to-face meetings, compared to before the Pandemic?** 
     1. 50-75%
     2. >75%
  4. **Chair will setup to do more automated polls during next week’s call, 23Jul20.**

1. Chair presents slide 27, Actions / AOB / Recess
   * **FCC 70/80/90 GHz, member working on a paragraph,** 
     + **Chair to setup boiler plate doc and setup ad hocs, next Tuesday and Wednesday, if needed.**
   * **Setup polling for LMSC/EC moving forward questions**
   * **Chair find WRC-23 agenda items on the ITU-R site for reference.**
   1. **AOB before recess to next Thursday, 23Jul20?**
      1. Nonce
   2. **Recessed at 16:59 until Thursday 23Jul20, 15:00et**

==========================================================================

Chair calls the meeting to order at 15:05 ET, Thursday 23 July 2020.

1. Chair presents slide 28, **2nd - Thursday (23Jul20) Agenda**
   1. **Reminder we are still under all IEEE policies as shown last Thursday (16jul20)**
      1. IMAT-Attendance server is open
      2. Remember to state your name, affiliation, employer and/or clients first time you speak.
      3. Someone to take a few notes: \_\_\_jay\_\_\_
      4. **Attendance and request queue in chat window, Stuart K**
   2. **Items from last week or new**
      1. Input on moving forward for EC (from 16th)
      2. EU Items (both weeks)
      3. ITU-R Items (both weeks)
      4. APAC-Taiwan MOTC and AU ACMA new
      5. ~~FCC 6 GHz (both weeks)~~ (wait a week)
      6. FCC 70/80/90 GHz (both weeks)
      7. General Discussion Items
   3. **Actions Required**
   4. **AOB**
   5. **Adjourn**
2. Chair presents slides 29 and 32, **IEEE 802 Moving Forward #2**
   1. From the LMSC/EC opening meeting, would like feedback on a couple of topics from the membership about moving IEEE 802 forward.
   2. **#1 – What would be the best number of days (weeks) for the 802.18 November 2020 electronic plenary planning?** 
      1. Original week in Bangkok was 08 – 13 November 2020.
      2. USA holiday 26-27 Nov20-Thu/Fri. Holiday’s elsewhere to consider? \_\_\_\_\_\_
      3. A proposal was sent to EC for Friday 06Nov20 to Thursday 19Nov20.
      4. Stay (start) with the announced dates, as coordinated with other organization.
         * 1. 1 week (5 week days) 11
           2. 1 ½ weeks (e.g. week 8 days) 6
           3. 2 weeks (10 week days) 3
           4. 2 weeks /11 days (July 2020 was 11 days) \_\_\_4
           5. Abstain 2
           6. No answer 3
      5. Comments: IETF is after, so start earlier if longer (do not overlap)
         1. Overlap of IEEE 802 meetings need to be considered, so may need more days
         2. (editor: especially if hours in the day are limited to help out globally)
   3. **#2 –(came in from the LMSC/EC after the 16Jul20 call:** 
      1. Given that IEEE 802 incurs significant expenses cancelling (plenary) face-to-face meetings, it has been suggested that a meeting fee might be charged for attendance at electronic meetings substituting for those face-to-face plenaries. What would you consider the highest reasonable and fair $s registration fee range to be: (select one)

2nd poll w/o <$150

a. $500-$800 3 2

b. $300-$500 2 2

1. $150-$300 12 16

d. < $150 10

e. $0\*\* 1 4

1. Abstain 3 3
2. No answer 1 5

\*\* My employer/sponsor is unwilling to pay meeting fees for electronic meeting

* Comments:
  + Several request to add the < $150, so did poll twice
  1. **#3 –(came in from the LMSC/EC after the 16Jul20 call:** 
     1. Once government and company restrictions have been lifted, what do you perceive as the reasonable number of face to face meetings (plenaries and interims) per year?

**a.** 6 (pre-2020 amount, 3 plenaries, 3 interims):

(below, the division between plenaries and interims is TBD)

13

b. 5 0

c. 4 7

d. 3 6

* + 1. 2 0
    2. 1 0
    3. 0 1
    4. Abstain 1
    5. No answer 4
    6. Comments:
       1. none
  1. **#4 – What do people consider for a target participation rate by WG / TAG membership for effective face-to-face meetings, compared to before the Pandemic? (Typically over 90% of voting members attend.)**
     1. 30% 0
     2. 40% 0
     3. 50% 2
     4. 60% 7
     5. 70% 7
     6. 80% 4
     7. 90% 6 (typical)
     8. Abstain 3
     9. No answer 3
     10. Comments:
         1. Not clear as timing getting a venue on contract is a question here if for planning, because of unknowns

1. Chair presents slides 33-34, **EU items to share**
   1. **ETSI –** [**<BRAN>**](https://portal.etsi.org/tb.aspx?tbid=287&SubTB=287) **next call, meeting #107, 28Sep-02Oct20**
      1. Nothing to share today, 23rd.
      2. From Tuesday/16th: 802.11 has been sent a liaison on EN 303 687, compromise that a single Energy Detect defined, dependent on output power of the device.
      3. 2 new Wis: TS Doc. on multi-Access Point performance, and
      4. 60 GHz which brought up some discussions. – there are 3 Harmonized Standards now,
      5. One is to extend to 71GHz.
      6. There will be some Go-To meetings coming up.
      7. Electronic meetings planned thru the end of the year.
      8. For now next year planning is for face2face meeting, of course depending on conditions, membership and government restrictions
   2. **ETSI - ERM -** [**<TG-11>**](https://portal.etsi.org/tb.aspx?tbid=442&SubTB=442) **next call, SRDoc #12 - 30Jul20**
      1. Nothing to share today, 23rd.
      2. 802.11 coex SC LS response to ETSI ERM TG11 is in [11-20-0861-06](https://urldefense.com/v3/__https:/mentor.ieee.org/802.11/dcn/20/11-20-0861-06-coex-proposed-ls-to-etsi-erm-tg11-in-response-to-a-ls-wrt-ieee-802-11-section-in-tr-103-665-2-4-ghz-srdoc.docx__;!!F7jv3iA!hFN99vVTd6sO8BtDEooFCbyAQdn8cTQW8AC02pn2dLOUqHZJyTNRe6utAq5VhDxoYg$).
   3. **CEPT – ECC** [**<FM57>**](https://cept.org/ecc/groups/ecc/wg-fm/fm-57/client/introduction/) **next call, meeting #11, 08-10Jul20; (#12-05-07Oct20)**
      1. nothing to share today, the 23rd.
      2. New WIs. 1) update 5 GHz for WRC-19 2) examine EC decision (04)08 RLAN to use 5150-5725, 3) 5.8 GHz band 4) ECC asking WGFM about protection to urban rail.
      3. Moving to correspondence (with more in Sept) and working to address these for 05Oct20 call. Time will be quick to finish up some by March of 2021.
2. Chair presents slide1 35, **ITU-R items to share**
   1. We have not gotten back to reviewing the WRC-23 agenda items that a member did a nice job with summarizing them at the end of [<18-19-0152>](https://mentor.ieee.org/802.18/dcn/19/18-19-0152-00-0000-summary-of-the-decisions-of-selected-agenda-items-in-wrc-19.pptx).
      1. Is anyone available to start a focused document on these, and/or what is the timing we should target to work on them? Never too early.
      2. Chair to confirm where WRC-23 agenda items are on the ITU Site:
      3. <https://www.itu.int/en/ITU-R/study-groups/rcpm/Pages/wrc-23-studies.aspx>
      4. <https://www.itu.int/dms_pub/itu-r/oth/0c/0a/R0C0A00000D0041PDFE.pdf>
      5. <https://mentor.ieee.org/802.18/dcn/20/18-20-0107-00-0000-res-811-wrc-19-wrc-23-agenda-items.docx>
      6. With Mentor Doc. 0107, we should be able to use as an initial list of agenda items that .18 can work through to identify AIs we may have an interest in to form some viewpoints.
      7. **An IEEE SA staff member, has been assigned to help IEEE 802 with ITU-R interface, participating in ITU-R calls and etc.** 
         1. At the request of the IEEE 802 Chair, here is the IEEE SA staff member contact info:
         2. Purva Rajkotia <[p.rajkotia@ieee.org](mailto:p.rajkotia@ieee.org)>.
         3. Will work out and define more clearly, e.g. 802 .vs. WGs, the approach.
      8. **The .11 Chair attended WP 5A call this week and will lead effort on recommending how to progress with the IEEE 802 submissions (.18 approved in May and EC approved in June), toward a Work Item.** 
         1. One-point was brought up that the recommendation need to address published documents, and e.g. 802.11ax should be published by the time these recommendations are updated.
         2. Also note, IEEE 802 was recognized for its works on standards.
         3. Focus so far was on the M-1450, e.g. Table 3 needs to be reviewed.
         4. M-1801 has not been addressed yet, expecting the same processes for it.
      9. **For miscellaneous links for ITU-R , SGs, WPs and calendars, see back up slides in agenda**
3. Chair presents slide 36 and 37, **APAC**
   1. **Every 2-month APAC update, with Taiwan 14 questions added.:** 
      1. <https://mentor.ieee.org/802.18/dcn/20/18-20-0106-01-0000-apac-update-july-2020.pptx>
      2. Taiwan MOTC has begun a consultation that considers allowing licensed-exempt usage in the 5925 - 7125 MHz band.
      3. For details, please refer to
         1. <https://www.motc.gov.tw/ch/home.jsp?id=15&parentpath=0,2&mcustomize=multimessages_view.jsp&dataserno=202006180001&aplistdn=ou=data,ou=bulletin,ou=chinese,ou=ap_root,o=motc,c=tw&toolsflag=Y&imgfolder=img%2Fstand>
      4. The comment submission deadline is August 7, 2020.
      5. Sounds like MOTC would accept comments in English, though it is too late for IEEE 802 to put together some comments and get through process.
   2. Australia ACMA has begun a consultation asking public opinion in allowing IoT applications to operate in the VHF high band and including this application to the Low Interference Potential Devices (LIPD) Class Licence.
      1. In particular, the consultation would like the public to provide comments on the following 2 issues:
      2. Issue #1: Establish arrangements similar to the European arrangements for the 169.4–169.4875 MHz, 169.4875–169.5875 MHz and 169.5875–169.8125 MHz frequency segments (termed f2, f3 and f4 in this paper), noting that their power and duty cycle constraints are below those of devices already operating harmoniously in the band. These arrangements would potentially be added to the Low Interference Potential Devices Class Licence
      3. Issue #2: Establish arrangements similar to the European arrangements for the 169.4–169.475 MHz segment (termed f1 in this paper). Use would potentially be supported by apparatus licences (and the development of an associated RALI.
      4. For details, please visit: [https://www.acma.gov.au/consultations/2020-07/internet-things-applications-vhf-high-band-consultation-202020](https://urldefense.com/v3/__https:/www.acma.gov.au/consultations/2020-07/internet-things-applications-vhf-high-band-consultation-202020__;!!F7jv3iA!lDie2jbtEVMXsAUdIs_zQPrwuDJ1DmliHx4AKnjzH86N6sUrFusZo86g7wypStIhaA$)
      5. The comment submission deadline is August 14, 2020 (Canberra local time)
      6. Some interest, though with time frame did not see enough to try to get comments in a week.
4. Chair presents slides 38 - 41, **Modernizing and Expanding Access to the 70/80/90 GHz Bands** 
   1. FR Document: [2020-14064](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2020/07/06/2020-14064/modernizing-and-expanding-access-to-the-708090-ghz-bands?utm_source=federalregister.gov&utm_medium=email&utm_campaign=subscription*mailing*list__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ446zt_D9dA$) Citation: 85 FR 40168 [PDF](https://urldefense.com/v3/__https:/www.govinfo.gov/content/pkg/FR-2020-07-06/pdf/2020-14064.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ444UBbFZGw$) Pages 40168-40181 *(14 pages)* [Permalink](https://urldefense.com/v3/__https:/www.federalregister.gov/d/2020-14064?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!nIcp48IVEbmOjFtfVgW6hZlsx465QVQqCgqcvGnho_5_9iusXKvmDnxJ447oinZQTg$)
   2. Proceeding 20-133:  <https://www.fcc.gov/ecfs/search/filings?proceedings_name=20-133&sort=date_disseminated,DESC>
   3. DATES:
   4. Comments are due on or before August 5, 2020.
      1. .18 would have to approve today – 23July20. **(11 days then 24th – 4th - close)**
   5. Reply comments on or before September 4, 2020.
   6. Proposed rule: <https://mentor.ieee.org/802.18/dcn/20/18-20-0104-02-0000-fcc-proposed-rule-modernizing-and-expanding-access-to-the-70-80-90-ghz-bands.docx>
      1. Uses both seek and seeks comments, so 63 places for these combined.
      2. Found a version of NPRM that is a more readable format, see r02 on mentor.
   7. See next, initial feedback from RR-TAG is we need to look at this more and maybe comment.
   8. This is E-Band; With new technologies on sharing (from original plans in 2005), could something be done in these three bands?
   9. Could we look to expand our standards above 71 GHz, e.g. in P802.11ay?
      1. Would only be a maintenance activity
   10. 802.15.3e would be able to add channels also as a maintenance effort.
   11. An opinion is so far it seems the FCC is not favoring IEEE 802 standards; we should review further and speak up.
   12. Note, a member has done an excellent summary of the band, rules and etc. It can greatly help guide us if we can get some comments together. We stepped through.
   13. <https://mentor.ieee.org/802.18/dcn/20/18-20-0105-01-0000-introduction-to-fcc-20-76-a1-modernizing-and-expanding-access-to-the-70-80-90-ghz-bands.pptx>
       1. Federal Mobile includes aero and helicopters,
       2. NTIA coordination might take six months for any link.
       3. Coordination is complicated
       4. FCC 05-45 was the rule
       5. Radiolocation – very open e.g. radio imaging from helicopters, some types of radar
   14. Could start with suggestion to start with 57-71 GHz rules and move up.
   15. To keep a more harmonized channel plan then to extend the channelization above 71GHz, e.g. for aircraft.
   16. A member offered to put a paragraph or so together.
   17. Chair will setup some ad hocs for next Tuesday and Wednesday (21-22Jul20) to have standing by.
   18. **Motion:** Approve comments in [https://mentor.ieee.org/802.18/dcn/](https://mentor.ieee.org/802.18/dcn/20/18-20-0108-03-0000-comments-ieee802-fcc-nprm-20-133-70-80-90ghz-bands-expand-access.docx)[20/18-20-0108-03-0000-comments-ieee802-fcc-nprm-20-133-70-80-90ghz-bands-expand-access.docx](https://mentor.ieee.org/802.18/dcn/20/18-20-0108-02-0000-comments-ieee802-fcc-nprm-20-133-70-80-90ghz-bands-expand-access.docx) to FCC NPRM (WT 20-133) on use of the 70/80/90 GHz Bands for review and approval by the LMSC (EC) for uploading to the FCC on or before the FCC due date at the time. With the Chair of 802.18 authorized to make editorial changes, as necessary.

(Webex poll) Vote: \_17\_Y / \_0\_N / \_1\_A / 3 voters DNV

Subject to Audit – after the call;

Audit: validated - adding 3 voters that did not vote.

Voters: 21 after audit.

Motion - Passes

28 present during the vote

1. Chair presents 42– 44, **General Discussion**
   1. FYI: As an ongoing action, we always want to be looking for ways we can help with the digital divide.
      1. As an information item the FCC did release a rule last week, w.r.t. the digital divide:
      2. Bridging the Digital Divide for Low-Income Consumers, Lifeline and Link Up Reform and Modernization, Telecommunications Carriers Eligible for Universal Service Support
      3. FR Document: [2020-13611](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2020/07/13/2020-13611/bridging-the-digital-divide-for-low-income-consumers-lifeline-and-link-up-reform-and-modernization?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!iD62LVpCDJI0_oTedwqzCGNgVGRw30urV4MARt6rm9PmUiRcEyY63HnmwwppKP56bw$) Citation: 85 FR 41930 [PDF](https://urldefense.com/v3/__https:/www.govinfo.gov/content/pkg/FR-2020-07-13/pdf/2020-13611.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!iD62LVpCDJI0_oTedwqzCGNgVGRw30urV4MARt6rm9PmUiRcEyY63Hnmwwqmhs6YYg$) Pages 41930-41931 *(2 pages)* [Permalink](https://urldefense.com/v3/__https:/www.federalregister.gov/d/2020-13611?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!iD62LVpCDJI0_oTedwqzCGNgVGRw30urV4MARt6rm9PmUiRcEyY63HnmwwoINN1PxQ$)
      4. Abstract: In this document, the Federal Communications Commission (Commission) announces that the Office of Management and Budget (OMB) has approved, for a period of three years, a revision to an information collection associated with the rules for the Lifeline and Link Up Reform and Modernization contained in the Commission's Order, FCC 19- 111. This document is consistent with the Fifth Report and Order, Memorandum Opinion and Order and Order on Reconsideration, and Further Notice of Proposed...
   2. FYI: **Review of the Commission's Rules Governing 896-901/935-940 MHz Band**
      1. **FR Document:** [2020-11897](https://urldefense.com/v3/__https:/www.federalregister.gov/documents/2020/07/16/2020-11897/review-of-the-commissions-rules-governing-896-901935-940-mhz-band?utm_medium=email&utm_campaign=subscription*mailing*list&utm_source=federalregister.gov__;Kys!!F7jv3iA!jpViulQi9yhXNfrpRBMGcMQUR7I_fTZIJ73DmmZ_8gWZ5HCSH-BGVnFjcBUc18uNdA$), **Citation:** 85 FR 43124, [PDF](https://urldefense.com/v3/__https:/www.govinfo.gov/content/pkg/FR-2020-07-16/pdf/2020-11897.pdf?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!jpViulQi9yhXNfrpRBMGcMQUR7I_fTZIJ73DmmZ_8gWZ5HCSH-BGVnFjcBVc7d7s2A$)Pages 43124-43141 *(18 pages)* , [Permalink](https://urldefense.com/v3/__https:/www.federalregister.gov/d/2020-11897?utm_campaign=subscription*mailing*list&utm_source=federalregister.gov&utm_medium=email__;Kys!!F7jv3iA!jpViulQi9yhXNfrpRBMGcMQUR7I_fTZIJ73DmmZ_8gWZ5HCSH-BGVnFjcBWvVrl_oA$)
      2. **Abstract:** In this document, the Commission adopts rules for broadband license operations in the 897.5-900.5/936.5-939.5 MHz segment of the 900 MHz band (896-901/935-940 MHz). The new rules are necessary because many 900 MHz licensees, including utilities and other industrial users, will require additional coverage and capacity to keep pace with the expanding need for enhanced connectivity. The intended effect of adopting rules for 900 MHz broadband license operations is to address many 900 MHz...
   3. FYI only: slide 41 was a list of discussions from 802.18 since the last plenary, reference only
2. Chair presents slide 45, Actions Required
   * **Chair get EC ballot going on 70/80/90 NPRM (done)**
   * **Chair - Info on ITU-R and IEEE-SA involvement**
   * **Chair - moving forward polling results to the EC. (done)**
   * **Chair – add call-in IDs with the link on the 802.18 website. (done)**
3. **Chair presents slide 46, AOB**
   1. IEEE wide elections open up in August, all officers all societies, etc.
   2. Please considering voting.
4. **Chair presents slide 47, Adjourn**
   1. Next “weekly” teleconference (sched’d to 07jan21): 30Jul20–*15:00–<15:55* ET
      1. Call in info: <https://mentor.ieee.org/802.18/dcn/16/18-16-0038-16-0000-teleconference-call-in-info.pptx> (*or latest) (new weekly call in starts 30jul20)*
         1. Also, see back up slide in this agenda.
      2. 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 only 802.18: [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, we are Adjourned at 16:36et
   4. The next (electronic) Plenary is currently being considered in November 2020
   5. Thank You – Please stay safe.

|  |  |  |
| --- | --- | --- |
|  | 23-Jul-20 |  |
| v | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| v | Auluck, Vijay | Self |
| v | Ecclesine, Peter | Cisco Systems, Inc. |
| v | Furuichi, Sho | Sony Corporation |
| v | Godfrey, Tim | Electric Power Research Institute, Inc. (EPRI) |
|  | Goldberg, Jonathan | IEEE STAFF |
| v | Hiertz, Guido | Ericsson GmbH |
| v | Holcomb, Jay | Itron Inc. |
| v | Ikegami, Tetsushi | Meiji University |
| v | Jones, Vincent Knowles IV | Qualcomm Incorporated |
| v | Kain, Carl | Noblis, Inc. |
| v | Kenney, John | TOYOTA InfoTechnology Center U.S.A. |
| v | Kerry, Stuart | OK-Brit |
| v | Lansford, James | Qualcomm |
| v | Lepp, James | BlackBerry |
| v | Levy, Joseph | InterDigital, Inc. |
| v | Lynch, Michael | MJ Lynch & Associates, LLC. |
|  | Madhavan, Narendar | Ericsson |
| v | Nikolich, Paul | Self, HPE, Huawei, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless |
|  | Oyama, Satoshi | Association of Radio Industries and Businesses (ARIB) |
| v | Palm, Stephen | Broadcom Corporation |
| v | Petranovich, James | ViaSat, Inc. |
|  | Petrick, Albert | Jones-Petrick and Associates, LLC. |
|  | Robert, Joerg | University of Erlangen-Nuremberg |
| v | Salazar Cardozo, Ruben E | Landis+Gyr AG |
| v | Sand, Stephan | German Aerospace Center (DLR) |
| v | Sarris, Ioannis | u-blox |
| v | Sato, Naotaka | Sony Corporation |
|  | Schiessl, Sebastian | u-blox |
| v | Sherlock, Ian | Texas instruments |
| v | Stanley, Dorothy | Hewlett Packard Enterprise |
| v | Verso, Billy | DecaWave |
| v | Wang, Lei | Huawei R&D USA |
|  | Ward, Lisa | Rohde & Schwarz |
|  | Yucek, Tevfik | Qualcomm Incorporated |
| v | YAGHOOBI, HASSAN | Inel Corporation |
| 28 | 36 |  |

|  |  |  |
| --- | --- | --- |
|  | 16-Jul-20 |  |
| v | Au, Kwok Shum | Huawei Technologies Co., Ltd |
| v | Auluck, Vijay | Self |
|  | Baykas, Tuncer | Tohoku University |
| v | Boldy, David | Broadcom Corporation |
| v | de Vegt, Rolf | Qualcomm Incorporated |
| v | Ecclesine, Peter | Cisco Systems, Inc. |
| v | Furuichi, Sho | Sony Corporation |
|  | Goldberg, Jonathan | IEEE STAFF |
| v | Hiertz, Guido | Ericsson GmbH |
| v | Holcomb, Jay | Itron Inc. |
| v | Ikegami, Tetsushi | Meiji University |
| v | Jones, Vincent Knowles IV | Qualcomm Incorporated |
| v | Kain, Carl | Noblis, Inc. |
| v | Kenney, John | TOYOTA InfoTechnology Center U.S.A. |
| v | Kerry, Stuart | OK-Brit |
| v | Lansford, James | Qualcomm |
| v | Lepp, James | BlackBerry |
| v | Levy, Joseph | InterDigital, Inc. |
| v | Lynch, Michael | MJ Lynch & Associates, LLC. |
| v | Nikolich, Paul | Self, HPE, Huawei, Itron, octoScope, Wyebot, UNH BCoE, YAS BBV, Origin Wireless |
|  | Oyama, Satoshi | Association of Radio Industries and Businesses (ARIB) |
| v | Palm, Stephen | Broadcom Corporation |
| v | Petranovich, James | ViaSat, Inc. |
|  | Petrick, Albert | Jones-Petrick and Associates, LLC. |
|  | Robert, Joerg | University of Erlangen-Nuremberg |
| v | Rolfe, Benjamin | Blind Creek Associates |
| v | Salazar Cardozo, Ruben E | Landis+Gyr AG |
| v | Sand, Stephan | German Aerospace Center (DLR) |
| v | Sarris, Ioannis | u-blox |
| v | Sato, Naotaka | Sony Corporation |
|  | Schiessl, Sebastian | u-blox |
| v | Sherlock, Ian | Texas instruments |
| v | Stanley, Dorothy | Hewlett Packard Enterprise |
| v | Verso, Billy | Qorvo |
| v | Wang, Lei | Huawei R&D USA |
|  | Ward, Lisa | Rohde & Schwarz |
| v | YAGHOOBI, HASSAN | Intel Corporation |
|  | Yucek, Tevfik | Qualcomm Incorporated |
| 30 | 38 |  |