IEEE P802.11  
Wireless LANs

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| UHR SG July 2023 Meeting Minutes | | | | |
| Date: 2023-07-10 | | | | |
| Author(s): | | | | |
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Abstract

This document contains the minutes for the UHR SG July 2023 Meeting Minutes.

Revision history:

* Rev0: initial version.

Abbreviations:

* C: Comment
* A: answer
* CET: Central European Time

# 1st Call: Monday, PM2, (16:00-18:00 CET)

1. The Chair, Laurent Cariou (Intel), calls the meeting to order. The Chair notifies the attendees that the agenda is in [11-23-0975r3](https://mentor.ieee.org/802.11/dcn/23/11-23-0975-03-0uhr-uhr-sg-july-2023-meeting-agenda.pptx).
   * Note that this is a hybrid meeting, with some participants in person and some participating online through a webex session
   * Need to pay the registration fee to attend
2. IEEE-SA Policies and Procedure

The chair reviews the IEEE-SA Patent Policy:

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair. Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

1. The chair goes through other guidelines for IEEE WG meetings, Patent-related information, Participation in IEEE 802 Meetings, and Copyright. The Chair asks that it be minuted that the **Copyright Policy** was presented.

* Chair provides an attendance reminder:

3.1. Please record your attendance during the session by using the IMAT system:

* login to [imat](https://imat.ieee.org/attendance)
* select “802 Plenary Mixed-mode Session - July 2023”
* select “C/LM/WG802.11 Attendance” entry
* click “UHR SG session that you are attending
  1. If you are unable to record your attendance contact Laurent Cariou (laurent.cariou@intel.com) and Ross Jian Yu (ross.yujian@huawei.com) for assistance

1. Agenda:

* Chair reviews proposed agenda
* Discussion:
* None
* Agenda approved with unanimous consent.

1. Announcements:

* None

1. Approval of SG Minutes

Move to approve UHR SG minutes listed below:

* May interim:
  + - https://mentor.ieee.org/802.11/dcn/23/11-23-0785-01-0uhr-uhr-sg-may-2023-meeting-minutes.docx
* Teleconferences May-June:
  + - <https://mentor.ieee.org/802.11/dcn/23/11-23-0937-03-0uhr-uhr-sg-june-2023-telecon-minutes.docx>

Move: Ross Jian Yu Second: Peshal Nayak

Discussion:

* None

Result: approved with unanimous consensus

1. Submissions

* [11-23-0739r1](https://mentor.ieee.org/802.11/dcn/23/11-23-0739-01-0uhr-follow-up-on-coordinated-tdma-c-tdma.pptx) Follow-up on Coordinated TDMA (C-TDMA) Yanjun Sun (Qualcomm)
  + - C: Slide 6, AP2 doesn’t have any data to transmit at all. In that case, after transmitting CTS frame, does the AP2 send CF-end?
    - A: That’s a good question. We have multiple ways. One way is to indicate duration in CTS. We can send CF-end as well. Other possibilities, AP2 should be polled in the first place. We are open to discuss.
    - C: slide 4, RTS can be notification?
    - A: RTS itself may not be sufficient. To make sure AP2 can take control of its own TXOP. Need to avoid the collision between AP2 and AP3. AP1 needs to tell the AP3 to defer the transmission.
    - C: Slide 4, in current single BSS, there still exits hidden STAs issue, similar as hidden AP issue. Why do you think hidden AP is a new issue?
    - A: Reliability is more important. Wants to increase reliability.
    - C: the solution cannot work for legacy STA.
    - A: we could have othe sequences to surpress legacy STAs.
* [11-23-0768r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0768-00-0uhr-discussion-on-c-ofdma-operation.pptx) Discussion on C-OFDMA operation Jinyoung Chun (LG Electronics)
  + - No Q&A
* [11-23-1023r2](https://mentor.ieee.org/802.11/dcn/23/11-23-1023-02-0uhr-coordinated-spatial-reuse-in-a-4-ap-topoplogy.pptx) Coordinated Spatial Reuse in a 4 AP Topoplogy Gary Anwyl (MediaTek)
  + - C: How to decide MCS?
    - A: MCS depends on SNR.
    - C: The main value will be MAC level. It delivers on time. Rather compare latency rather than Tput.
    - A: Agree that require more SLS.
* [11-23-1037r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1037-00-0uhr-performance-of-coordinated-spatial-reuse.pptx) Performance of Coordinated Spatial Reuse Kanke Wu (Qualcomm)
  + - C: Slide 4, you talk about based on given MCS table and SINR level, do you mean that the STA refers to a given MCS table and SINR level on transmission.
    - A: In simulation, to simply the link adaptation process.
    - C: In practical implementation, how to get a MCS table and SINR level, how to use the table?
    - A: I am not sure. What we are trying to do here is to simplify link adaptation based on some PHY measurements. You have some sort of methods like depending on historical data. 10% PER threshold based on simulation, like 11ax PHY abstraction. And we calculate the Tput.
    - C: Since these two BSS are co-channel, why we must use ED instead of PD. What are the purposes?
    - A: The main reason is because if you use PD, this will be very like CSMA/CA.
    - C: for comparison purpose? They are within the same 80 MHz, they can receive the preamble in Primary channel. This is only for simulation purpose.
    - A: yes.
* [11-23-1176r1](https://mentor.ieee.org/802.11/dcn/23/11-23-1176-01-0uhr-multi-ap-simulations-framework-and-joint-transmission-results.pptx) Multi-AP Simulations: framework and Joint Transmission results Rainer Strobel (MaxLinear)
  + - No Q&A
* Recess at 17:56 CET

# 2nd Call: Tuesday, PM3, (19:30-21:30 CET)

1. The Chair, Laurent Cariou (Intel), calls the meeting to order. The Chair notifies the attendees that the agenda is in [11-23-0975r4](https://mentor.ieee.org/802.11/dcn/23/11-23-0975-04-0uhr-uhr-sg-july-2023-meeting-agenda.pptx).
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  1. If you are unable to record your attendance contact Laurent Cariou (laurent.cariou@intel.com) and Ross Jian Yu (ross.yujian@huawei.com) for assistance

1. Agenda:

* Chair reviews proposed agenda
* Discussion:
* None
* Agenda approved with unanimous consent.

1. Announcements:

* None

1. PAR: process of other WG’s comments, presented by Laurent Cariou (Intel), documents include:

* [11/23-1237r3](https://mentor.ieee.org/802.11/dcn/23/11-23-1237-03-0000-comments-from-802-on-p802-11bn-par.pptx) Comments from 802 on P802.11bn PAR Dorothy Stanley (HPE)
* [11-23/1166r2](https://mentor.ieee.org/802.11/dcn/23/11-23-1166-02-0uhr-uhr-par-and-csd-comments.pptx) UHR PAR and CSD comments Laurent Cariou (Intel)
* [11-23/1252r3](https://mentor.ieee.org/802.11/dcn/23/11-23-1252-03-0uhr-802-11bn-revised-par.docx) 802.11bn revised PAR Laurent Cariou (Intel)
* [11-23/0079r8](https://mentor.ieee.org/802.11/dcn/23/11-23-0079-08-0uhr-uhr-draft-proposed-csd.docx) UHR Draft Proposed CSD Laurent Cariou (Intel)

Discussion:

* C: Propose reliability extensions. That’s what we want to achieve. Make it more aligned with what the commenter.
* A: Nescom problem regarding the name. Keep the term, the reasons we discuss in the past. But may not explain it probably. We may have a backup plan of changing name if it doesn’t pass Nescom.
* C: Not just data and also management. For the first two, there are 25% as a quantification, but do have quantify for the 3rd item, the packet loss.
* It is not needed because that’s the first time we define packet loss.
* C: Compared with EHT, you are reducing MAC SAP loss, you probably should have something there. The UHR Tput like video, when you having a PAR that is understandable who are not here. To us, UHR is very familiar. But for people who are not here, when they look at the name, they only can see the title and scope. You need to have a name and scope that are materially correct. The sope is written in present tense.
* A: the name, the definition of relialibty, the quantification on different requirements. We are making changes here, giving our definition of relialibty. It is difficult to change the name all the time.
* C: These PARs, the projects must be understandable by a larger audidence. The word we choose should be understandable. My comment is to try to make the group to understand.
* C: what level of mobility? Walking in the house?
* A: The PAR needs to be in high level. There are proposal with details. Walking speed, in home, enterprise.
* C: Will not cover high speed?
* A: No.
* C: Do you want to change mobility to transitions?
* C: Suggest change data to MPDUs.
* C: Suppose to quantify for high, very high. In explanation section, you can write some notes. Your definition of reliability, I read that. It is not really about reliability. People will use translate, google, to explain that. Relaiblity, stability, Tput. The point is here your explanation notes, what is writing now has an issue. Some work needs to be done.
* C: go back to the title, we used to have UHR. Now we have exhancements for UHR. We say have reliability, we wants to increase.
* C: 5.2, remove “will”. Enhancements for UHR alighs with your title.
* A: Enhancements are copy and pasted for the projects. Enhancements for EHT doesn’t mean you have EHT. 5.2b UHR capability is some new capability into 802.11. We have a long discussion. We need to make progress. Will never be perfect. Thanks.
* C: People try to make constructive comments. You get my comments about the title and contents. That’s not consistent.
* C: The PAR is not written for us, write for outside community. It is not just an internal thing about naming.
* C: I appreciate the work. There is already definition of reliability. There are many reviewers. You may want to say, there is already definition. You may consider it later as it is editoiral.
* C: slide 16, the answer should be yes rather than No.
* A: Should be No.
* C: Then should provide a reason
* C: the answer is yes. We need to evaluate the performance. The standard is not complete. There should be no isssues with answering yes.
* C: .15 slides, slide 8, make sure you copy all 5 comments.
* A: yes in slide 17.
* C: when you change to yes. You need to explain, P802.11be is in progress and this amendment will enhance its base funcationalities.
* C: I will you take into the changes and make it pdf. The pdf will send to the EC.
* C: removal of clients. Which comment leads to the removal?
* A: there are couple of comments to quantify power consumption. We don’t need to quantify new. Power consumption that we will do and don’t need to mention.
* C: client and APs, now we have a lot of clients. It is strange to only mention untethered devices.
* C: thanks a lot for the comments. People are tyring to be helpful. I hope the comments can be considered. Will vote No for the PAR.

PAR and CSD Comment Responses Motion

* Move to accept [**https://mentor.ieee.org/802.11/dcn/23/11-23-1166-03-0uhr-uhr-par-and-csd-comments.pptx**](https://mentor.ieee.org/802.11/dcn/23/11-23-1166-03-0uhr-uhr-par-and-csd-comments.pptx) as the response to comments received on the UHR PAR and CSD documents received from IEEE 802.

Moved by [] on behalf of UHR SG

UHR SG vote:

Moved: Rolf de Vegt Seconded: Brian Hart

Result: 172Y-15N-25A-82 no answer, motion passes

PAR Approval Motion

* Believing that the PAR contained in the document referenced below meets IEEE-SA guidelines,

**Request that the PAR contained in 11-23/1252r4 <**[**https://mentor.ieee.org/802.11/dcn/23/11-23-1252-04-0uhr-802-11bn-revised-par.docx**](https://mentor.ieee.org/802.11/dcn/23/11-23-1252-04-0uhr-802-11bn-revised-par.docx)**> be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval to submit to NesCom.**

Moved by [] on behalf of UHR SG

UHR SG vote:

Moved: Rolf de Vegt Seconded: Brian Hart

Result: 174+1Y-14N-18A-87 no answer, motion passes

CSD Approval Motion

* Believing that the CSD contained in the document referenced below meets IEEE 802 guidelines,

**Request that the CSD contained in 11-23/0079r9 <**[**https://mentor.ieee.org/802.11/dcn/23/11-23-0079-09-0uhr-uhr-draft-proposed-csd.docx**](https://mentor.ieee.org/802.11/dcn/23/11-23-0079-09-0uhr-uhr-draft-proposed-csd.docx)**> be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval.**

**Moved by [] on behalf of UHR SG**

**UHR SG vote:**

Moved: Rolf de Vegt Seconded: Akira Kishida

Result**:** 168Y-9N-18A-97no answer, motion passes

1. Review liaison from WFA re energy efficiency

[11-23/0917r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0917-00-0000-liaison-from-wfa-re-energy-efficiency.docx) Liaison from WFA re: energy efficiency Dorothy Stanley (HPE), presented by Laurent Cariou (Intel)

11-23/1254r0 Draft liaison response to WFA re energy efficiency Laurent Cariou (Intel)

Discussion:

* C: Typo, should be thanks to the inputs.
* C: always have IEEE before 802.11

Liaison response to WFA re energy efficiency

* Move to accept the liaison document in [**https://mentor.ieee.org/802.11/dcn/23/11-23-1254-01-0uhr-draft-liaison-response-to-wfa-re-energy-efficiency.docx**](https://mentor.ieee.org/802.11/dcn/23/11-23-1254-01-0uhr-draft-liaison-response-to-wfa-re-energy-efficiency.docx) to be sent to WFA, granting the WG chair editorial license.

Moved by [] on behalf of UHR SG

UHR SG vote:

Moved: Jon Rosdahl Seconded: Rolf de Vegt

Result: 143Y-1N-11A-119 no answer, motion passes

* Recess at 21:30 CET

# 3rd Call: Wednesday, AM1, (08:00-10:00 CET)

* The Chair, Laurent Cariou (Intel), calls the meeting to order. The Chair notifies the attendees that the agenda is in [11-23-0975r5](https://mentor.ieee.org/802.11/dcn/23/11-23-0975-00-0uhr-uhr-sg-july-2023-meeting-agenda.pptx).
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* click “UHR SG session that you are attending

3.2 If you are unable to record your attendance contact Laurent Cariou (laurent.cariou@intel.com) and Ross Jian Yu (ross.yujian@huawei.com) for assistance

1. Agenda:

* Chair reviews proposed agenda.
* Discussion:
* None
* Agenda approved with unanimous consent.

1. Announcements:

* None

1. Submissions

* [11-23-0924r2](https://mentor.ieee.org/802.11/dcn/23/11-23-0924-02-0uhr-aiml-use-cases-and-features-for-wlan.pptx) AIML Use Cases and Features for WLAN Xiaofei WANG (InterDigital)
  + - C: The third application, efficient AIML model sharing, Why Wi-Fi has to know the cotents of the payload?
    - A: Two cases per different scenarios.

SP1:

**Would you be interested to study/work on AIML related features (as discussed in this presentation) in UHR SG/802.11bn?**

* Yes:
* No:
* Abstain:

**Result**: 108Y-50N-53A-72No answer

SP2:

**Which one or more of the following AIML related use case(s)/feature(s) are you interested in working/studying for UHR SG/802.11bn?**

1. **AIML CSI Feedback compression/enhancement**
2. **AIML-based distributed channel access**
3. **AIML model sharing**
4. **AIML-based roaming enhancement**
5. **AIML-based multi-AP coordination**
6. **AIML-based dynamic spectrum sharing**
7. **None of the above**

**Note: Please choose one or more of AIML-based use cases/features**

**Result**: Opt 1/2/3/4/5/6/7: 93-79-48-79-83-59-74

No answer: 75

* [11-23-1065r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1065-00-0uhr-low-latency-channel-access.pptx) Low latency channel access Laurent Cariou (Intel) and Dmitry Akhmetov (Intel)
  + - C: Any policy when the STA can use this policy?
    - A: Should have somer rule like when you achieve a number of retransmissions.
* [11-23-1155r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1155-00-0uhr-ultra-low-latency-with-wi-fi.pptx) Ultra-Low Latency with Wi-Fi Sigurd Schelstraete (MaxLinear)
  + - C: Slide 15, this is UL or DL or both?
    - A: could be both DL and UL. Needs a dedicated RU. Assign a dedicated RU to a dedicated STA or a group of STAs.
    - C: if assigned to multiple RUs? Would be challenging?
    - A: For DL it is easier. The Rx can check the MAC address.
    - C: Same modulation and no beamforming?
    - A: yes
* [11-23-0798r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0798-00-0uhr-low-latency-traffic-report.pptx) Low latency traffic report Yongho Seok (MediaTek)
  + - C: I agree with you on the overall direction. The preemption can be supported based on PIFS recovery. Slide 7, the STA’s TXOP, STA can transmit multiple PPDU. Some AP can transmit LLR with SIFS interval.
    - A: I didn’t express the details. There should be indicated the STAs can preemption.
    - C: slide 7, how about STA2 has LL to send?
    - A: that’s another question. It probably in addition to this procedure, AP has to obtain and share the TXOP, give chance to other STAs.
    - C: AP is the TXOP holder, the other problem is the OBSS, which is not the TXOP holder. Devices will interrupt the TXOP. To make sure all the TXOP very short.
    - A: There are contributions like r-TWT.
* Recess at 09:52 CET

# 4th Call: Thursday, AM2, (10:30-12:30 CET)

1. The Chair, Laurent Cariou (Intel), calls the meeting to order. The Chair notifies the attendees that the agenda is in [11-23-0975r7](https://mentor.ieee.org/802.11/dcn/23/11-23-0975-07-0uhr-uhr-sg-july-2023-meeting-agenda.pptx).
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* click “UHR SG session that you are attending
  1. If you are unable to record your attendance contact Laurent Cariou (laurent.cariou@intel.com) and Ross Jian Yu (ross.yujian@huawei.com) for assistance

1. Agenda:

* Chair reviews proposed agenda
* Discussion
* None
* Agenda approved with unanimous consent.

1. Submissions

* [11-23-08431](https://mentor.ieee.org/802.11/dcn/23/11-23-0843-01-0uhr-considerations-on-dynamic-subchannel-operation.pptx) Considerations on Dynamic Subchannel Operation Liuming Lu (OPPO)
  + - No Q&A
* [11-23-1099r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1099-00-0uhr-vendor-specific-sig-field.pptx) Vendor Specific SIG field Brian Hart (Cisco Systems)
  + - C: can VS-SIG contents show right after UHR-SIG or within UHR-SIG?
    - A: the advantage of putting VS-SIG earlier can enable modifying semantics of UHR-SIG.
    - C: VS-SIG is only used for SU transmission?
    - A: For TB PPDU, we have to see. For MU PPDU, if we want to change the meaning of MCS, we can do that early. If you want individual behavior, most efficient to change UHR-SIG.
    - C: 2^16 = 65k silicon vendors, do we need even that much?
    - A: for future.
    - C: Can we define some rules to use 1-2 Disregard bits for vendor specific purpose?
    - A: Vendor A may use two Disregard bits, vendor B also try to use the two bits. Thoese bits will be interpreted differently. Really important to make it workable for a long term.
    - C: This VS ID is vendor ID of the transmitter?
    - A: yes.
    - C: Can it be informed through the MAC?
    - A: When you receive the two bits, you don’t know if the transmission is from this BSS or another BSS. It becomes very hard, especially for OFDMA transmission. I am sure you can do this without it. But in long term, wants to ensure it can work
    - C: we can further discuss offline..
* [11-23-1100r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1100-00-0uhr-low-power-and-long-range-preamble.pptx) Low Power and Long Range Preamble Brian Hart (Cisco Systems)
  + - C: Slide 5, UHR-LTF repetition, how to ensure AGC?
    - A: Agree with that on the AGC. The first two cases would be able to support AGC. We can further discuss through email.
    - C: For the power saving, it is only for SU or also for MU?
    - A: It is nothing that prohibit for MU.
    - C: for the long range, what is your target, the L-STF/LTF/L-SIG/RL-SIG could be the bottleneck?
    - A: Agreed.
    - A: the preamble extension will be signaled through U-SIG.
* [11-23-1115r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1115-00-0uhr-cfo-impact-and-pilot-design-for-dru.pptx) CFO Impact and Pilot Design for dRU Eunsung Park (LG Electronics)
  + - C: The results are interesting. You show the diversity of gain dRU always outperform rRU even with CFO. Slide 5, with CFO configuration, have you check different users use different CFO. The users could be the same configuration. The frist user will be only affected by the 2nd user but not the 3rd users.
    - A: I can further check the performance.
    - C: Thanks for the simulations. It is difficult to see Opt1 and Opt2. Could you provide the subcarrier indexes?
    - A: Will provide them.
    - C: the CFO use is valid for the range? The CFO may probably be much bigger than that.
    - A: Will check.
* [11-23-1117r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1117-00-0uhr-dru-signaling-for-uhr.pptx) dRU Signaling for UHR Eunsung Park (LG Electronics)
  + - C: Why use rRU to indicate dRU? Why use this complicate mapping?
    - A: We can also come up with another approach. I just want to reuse. The approach to define the mapping rule. We just define in the spec. There is nothing complicated.
    - C: You need to define new tone plan. You can indicate the tones of each dRU.
    - A: If we define the dRU. We need another method to indicated dRU. We can further discuss later.
    - C: when you present for dRu allocation. It is the tone plan you use for previous simulation?
    - A: yes.
    - C: Would be helpful to see some numbers. 26-tone dRU, are they uniformly distributed?
    - A: there are some DC tones. Each row indicates each subcarrier.
* [11-23-0936r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0936-00-0uhr-medium-efficient-scheduled-channel-access-in-next-generation-802-11.pptx) Medium efficient scheduled channel access in next generation 802.11 Dmitry Akhmetov (Intel)
  + - C: how random are those parameters?
    - If you schedule 4 STAs, most of the parameters won’t change.
    - C: more stable parameters, and put more dynamic parameters separately.
    - A: just indicate the paraterters that are going to change.
* [11-23-0799r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0799-00-0uhr-low-latency-out-of-order-delivery.pptx) Low latency out-of-order delivery Yongho Seok (MediaTek)
  + - C: This proposal to add additional PN counter. PN could be helpful for reorder and out of order delivery.
    - C: Slide 3, the UHR CSD we can support .1 without any changes. What you propose to an exception to .1q. There are some homework we needs to do.
    - C: using different TIDs, TID from access category from uppler layer.
    - A: It is like UP. We can depend on another TID. We already define SCS. SCS based on soluation. Don’t know about the details. Just want to say we need ore evaluate on that..
* Recess at 12:30 CET

# 5th Call: Thursday, PM2, (16:00-18:00 CET)

1. The Chair, Laurent Cariou (Intel), calls the meeting to order. The Chair notifies the attendees that the agenda is in [11-23-0975r8](https://mentor.ieee.org/802.11/dcn/23/11-23-0975-08-0uhr-uhr-sg-july-2023-meeting-agenda.pptx).
   * Note that this is a hybrid meeting, with some participants in person and some participating online through a webex session
   * Need to pay the registration fee to attend
2. IEEE-SA Policies and Procedure

The chair reviews the IEEE-SA Patent Policy:

If anyone in this meeting is personally aware of the holder of any patent claims that are potentially essential to implementation of the proposed standard(s) under consideration by this group and that are not already the subject of an Accepted Letter of Assurance, please respond at this time by providing relevant information to the WG Chair. Speak up now and respond to this Call for Potentially Essential Patents. **Nobody speaks/writes up**.

1. The chair goes through Other guidelines for IEEE WG meetings, Patent-related information, Participation in IEEE 802 Meetings, and Copyright. The Chair asks that it be minuted that the **Copyright Policy** was presented.
2. Chair provides an attendance reminder:

3.1. Please record your attendance during the session by using the IMAT system:

* login to [imat](https://imat.ieee.org/attendance)
* select “802 Plenary Mixed-mode Session - July 2023”
* select “C/LM/WG802.11 Attendance” entry
* click “UHR SG session that you are attending
  1. If you are unable to record your attendance contact Laurent Cariou (laurent.cariou@intel.com) and Ross Jian Yu (ross.yujian@huawei.com) for assistance

1. Agenda:

* Chair reviews proposed agenda
* Discussion
* None
* Agenda approved with unanimous consent.

1. PAR: process of other WG’s comments, presented by Laurent Cariou (Intel)

* [11-23/1166r4](https://mentor.ieee.org/802.11/dcn/23/11-23-1166-02-0uhr-uhr-par-and-csd-comments.pptx) UHR PAR and CSD comments Laurent Cariou (Intel)
* [11-23/0480r3](https://mentor.ieee.org/802.11/dcn/23/11-23-0480-03-0uhr-uhr-proposed-par.pdf) UHR proposed PAR Laurent Cariou (Intel)
* [11-23/0079r10](https://mentor.ieee.org/802.11/dcn/23/11-23-0079-10-0uhr-uhr-draft-proposed-csd.docx) UHR Draft Proposed CSD Laurent Cariou (Intel)

Discussions

* C: the question is why power save is in the scope. And you are saying as power save is in the scope.
* A: will fix that.

**PAR Approval Motion**

Believing that the PAR contained in the document referenced below meets IEEE-SA guidelines,

Request that the PAR contained in 11-23/480r3 <<https://mentor.ieee.org/802.11/dcn/23/11-23-0480-03-0uhr-uhr-proposed-par.pdf>> be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval to submit to NesCom.

Moved by [] on behalf of UHR SG

UHR SG vote:

Moved: Ross Jian Yu Seconded: Rolf de Vegt

Result: 130Y-4N-11A-77No answer, motion passes

**CSD Approval Motion**

Believing that the CSD contained in the document referenced below meets IEEE 802 guidelines,

Request that the CSD contained in 11-23/0079r10 <<https://mentor.ieee.org/802.11/dcn/23/11-23-0079-10-0uhr-uhr-draft-proposed-csd.docx>> be posted to the IEEE 802 Executive Committee (EC) agenda for WG 802 preview and EC approval.

Moved by [] on behalf of UHR SG

UHR SG vote:

Moved: Ross Jian Yu Seconded: Akira Kishida

Result: 129Y-0N-11A-92No answer, motion passes

1. Submissions

* [11-23-0797r1](https://mentor.ieee.org/802.11/dcn/23/11-23-0797-01-0uhr-non-primary-channel-access.pptx) Non-primary channel access Yongho Seok (MediaTek)
  + - C: suggests to show more details regarding changes on ED as well.
* [11-23-961r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0961-00-0uhr-uhr-secondary-channel-access.pptx) UHR secondary channel access channel access Minyoung Park (Intel Corp.)
  + - C: Page 5, the AP is transmitter, the STA is receiver. This is an example?
    - A: It is an example. The STA can also transmit.
* [11-23-0962r0](https://mentor.ieee.org/802.11/dcn/23/11-23-0962-00-0uhr-uhr-secondary-channel-access-evaluation.pptx) UHR secondary channel access evaluation Dibakar Das (Intel Corporation)
  + - C: slide 6, the assumption is all the STAs can each other?
    - A: yes
    - C: slide 3, you mentioned listen time. This time is quite similar as blindness in 11be. Why we choose waiting for duration instead of using blind rule.
    - A: We can look into that. The basic idea is to not intefere the ongoing transmission.
    - A: very similar as EMLSR.
    - C: this is for simulation. We can further discuss the details in the future.
    - A: yes
    - C: where are those two values come from?
    - A: Based on max PPDU size and half of it.
    - C: what is the assumption for your padding requirement?
    - A: in simulatin, the switch is simultaneous. Would think it is similar as EMLSR.
* [11-23-1112r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1112-00-0uhr-thoughts-on-secondary-channel-access.pptx) Thoughts on Secondary Channel Access Insun Jang (LG Electronics)
  + - C: AP doesn’t have MU EDCA. Why don’t think simply reuse EDCA parameters.
    - A: Just an example.
    - C: slide 6, you mention max PPDU bandwidth, can you explain it, limited by capability?
    - A: yes.
* [11-23-1288r0](https://mentor.ieee.org/802.11/dcn/23/11-23-1288-00-0uhr-non-primary-channel-utilization-follow-up.pptx) Non-primary Channel Utilization Follow-up Sindhu Verma (Broadcom)
  + - No time for Q&A

1. Goals for September 2023

* Technical submissions and discussion on the different PAR KPIs

1. Teleconference/ad-hoc plan

* July 24th 10am-12pm ET
* July 31st 10am-12pm ET
* August 7th 10am-12pm ET
* August 14th 10am-12pm ET
* August 21st 10am-12pm ET
* August 28th 10am-12pm ET

1. AoB
   * None
2. Adjourn at 17:58 CET