IEEE P802.11  
Wireless LANs

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| 802.11ba  Teleconference Minutes June 2020 | | | | |
| Date: 2020-06-08 | | | | |
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Abstract

This document contains minutes from TG 802.11ba teleconference in June 2020.

Rev 0: Minutes for TG 802.11ba teleconference on 1st of June.

Rev 1: Minutes for TG 802.11ba teleconference on 8th of June added.

Rev 2: Minutes for TG 802.11ba teleconference on 15th of June added + some typos corrected.

Rev 3: Minutes for TG 802.11ba teleconference on 22nd of June added

Rev 4: Minutes for TG 802.11ba teleconference on 29th of June added

**Teleconference on Monday, June 1 2020, 5:00pm –7:00pm (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
   1. Use IMAT to register your attendance
5. Motions
   1. 11-20-801r0 CR for WUR Duty Cycle, Po-Kai Huang (Intel)
   2. 11-20-802r1 CR for WUR Wake-up Operation Part I, Po-Kai Huang (Intel)
   3. 11-20-804r0 CR for WUR Power Management Part I, Po-Kai Huang (Intel)
6. Presentations
   1. 11-20-776r0 MAC CR Miscellaneous CIDs, Alfred Asterjadhi (Qualcomm)
7. Adjourn

**Teleconferences are subject to applicable policies and procedures, see below.**  
•       IEEE Code of Ethics  
–       <https://www.ieee.org/about/corporate/governance/p7-8.html>    
•       IEEE Standards Association (IEEE-SA) Affiliation FAQ  
–       <https://standards.ieee.org/faqs/affiliation.html>  
•       Antitrust and Competition Policy  
–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>  
•       IEEE-SA Patent Policy  
–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>    
–       <https://standards.ieee.org/about/sasb/patcom/>  
 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)  
–       [http://www.ieee802.org/PNP/approved/IEEE\_802\_WG\_PandP\_v19.pdf](https://protect2.fireeye.com/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&u=http%3A%2F%2Fwww.ieee802.org%2FPNP%2Fapproved%2FIEEE_802_WG_PandP_v19.pdf)  
•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)  
–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>  
•       Participation in IEEE 802 Meetings  
–       <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0180-05-00EC-ieee-802-participation-slide.pptx>  
•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)  
–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **Chair Minyoung Park (Intel) calls the meeting to order at 5:02pm (ET).**
2. Minyoung goes through the proposed agenda, which also can be found in document 11-20/0695r9, and asks it there are any questions or additional items that should be added. No discussion on the agenda, so the agenda will be used.
3. Minyoung reminds about the IEEE patent policy related matters and directs people to the links provided in the invitation and also shown above.
4. Minyoung reminds about attendance.
5. Motions:

**Motion# 7014**

Move to accept the comment resolution in 11-20/0801r0 for CIDs listed below:

* 1. 7080, 7081

**Move:** Po-Kai Huang

**Second:** Yunsong Yang

Motion passes with unanimous consent

**Motion# 7015**

Move to accept the comment resolution in 11-20/0802r1 for CIDs listed below:

* 1. 7012, 7014, 7036, 7039, 7057, 7113, 7085, 7086, 7087

**Move:** Po-Kai Huang

**Second:** Yunsong Yang

Motion passes with unanimous consent

**Motion# 7016**

Move to accept the comment resolution in 11-20/0804r0 for CIDs listed below:

* 1. 7034, 7038

**Move:** Po-Kai Huang

**Second:** Yunsong Yang

Motion passes with unanimous consent

1. Presentations:

**11-20/0776r0, “Comment resolutions for Miscellaneous CIDs”, Alfred Asterjadhi (Qualcomm):** This submission proposes resolutions for multiple comments related to TGba D6.0 with the following CIDs (15 CIDs):

* 7007, 7008, 7015, 7022, 7028, 7030, 7031, 7032, 7046, 7047,
* 7048, 7090, 7091, 7114, 7117.

CID 7007: No discussion.

CID 7008: No discussion.

CID 7015: No discussion.

CID 7022: No discussion.

CID 7028: No discussion.

CID 7030: Question/Comment(Q): You write (short) WUR, but we usually write WUR (short). Can you please change?

Answer (A): I agree. I will change.

CID 7031: No discussion.

CID 7032: Q: Should it be “identifier” or “identifier of AP”?

A: It is the identifier of the BSSID.

After some discussion it if decided to defer this CID and continue the discussion offline.

CID 7046: Q: Do we need to remover WUR power state, I would prefer to keep it.

A: OK.

CID 7047: Q: I have already addressed this in another CID.

A: OK. I will make sure to make a consistent change.

CID 7048: No discussion.

CID 7090: Some discussion related to when to use “equal to ” and “set to”. No change made to the proposed resolution.

CID 7091: No discussion.

CID 7114: No discussion.

CID 7117: No discussion.

Document 11-20/0776r1 will be ready for motion (1 CID deferred).

1. **The meeting is adjourned at 05:50pm (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Steve Shellhammer | Qualcomm |
| 5 | Yunsong Yang | Futurewei |
| 6 | Xiaofei Wang | Interdigital |
| 7 | Yi-Hsiu Wang | Innopeak |
| 8 | Peter Yee | NSA-CSD |
| 9 | Alfred Asterjadhi | Qualcomm |
| 10 | Qinghua Li | Intel |
| 11 | Jon Rosdahl | Qualcomm |
| 12 | Rui Yang | Interdigital |

**Teleconference on Monday, June 8 2020, 10:00am –12:00am (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
   1. Use IMAT to register your attendance
5. Motions
   1. 11-20-776r1 MAC CR Miscellaneous CIDs, Alfred Asterjadhi (Qualcomm) – CID 7032 deferred
6. Presentations
   1. 11-20/0864r0 Comment Resolution for Miscellaneous CIDs, Po-Kai Huang (Intel)
7. Adjourn

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•       Antitrust and Competition Policy  
–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>  
•       IEEE-SA Patent Policy  
–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>    
–       <https://standards.ieee.org/about/sasb/patcom/>  
 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)  
–       [http://www.ieee802.org/PNP/approved/IEEE\_802\_WG\_PandP\_v19.pdf](https://protect2.fireeye.com/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&u=http%3A%2F%2Fwww.ieee802.org%2FPNP%2Fapproved%2FIEEE_802_WG_PandP_v19.pdf)  
•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)  
–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>  
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•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)  
–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **Chair Minyoung Park (Intel) calls the meeting to order at 10:03am (ET).**
2. Minyoung goes through the proposed agenda, which also can be found in document 11-20/0695r12. Minyoung notes that Alfred is not on the call and also that 11-20/0776r1 is not uploaded to Mentor. Minyoung therefore updates the agenda so that the motion is deferred. Minyoung asks it there are any questions or additional items that should be added to the updated agenda. No discussion on the agenda, so the agenda will be used.
3. Minyoung reminds about the IEEE patent policy related matters and directs people to the links provided in the invitation and also shown above.
4. Minyoung reminds about attendance.
5. Motion: Deferred.
6. Presentations:

**11-20/0864r0, “11ba D6.1 Comment Resolution for Miscellaneous CIDs” PO-Kai Huang (Intel):** This submission proposes resolutions for comments of TGba Draft D6.1 with the following CIDs: 7041, 7098, 7065, 7070, 7082, 7083, 7076, 7084

CID 7041: No discussion.

CID 7098: No discussion.

CID 7065: No discussion.

CID 7070: No discussion.

CID 7082: No discussion.

CID 7083: No discussion.

CID 7076: No discussion.

CID 7084: The motivation for the resolution is updated. No discussion apart from this.

Document 11-20/0864r1 will be ready for motion.

1. **The meeting is adjourned at 10:35am (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Al Petrick | Interdigital |

**Teleconference on Monday, June 15 2020, 11:00pm –1:00am (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
   1. Use IMAT to register your attendance
5. Motions
   1. 11-20-776r1, MAC CR Miscellaneous CIDs, Alfred Asterjadhi (Qualcomm) – CID 7032 deferred
   2. 11-20/0864r1, Comment Resolution for Miscellaneous CIDs, Po-Kai Huang (Intel)
6. Presentations
   1. 11-20-0879r0, “PHY CR for CID 7104”, Vinod Kristem (Intel Corporation)
   2. 11-20-0876r0, SA1 CR for misc comments-part 2, Minyoung Park (Intel Corporation)
7. Adjourn

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•       Antitrust and Competition Policy  
–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>  
•       IEEE-SA Patent Policy  
–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>    
–       <https://standards.ieee.org/about/sasb/patcom/>  
 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)  
–       [http://www.ieee802.org/PNP/approved/IEEE\_802\_WG\_PandP\_v19.pdf](https://protect2.fireeye.com/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&u=http%3A%2F%2Fwww.ieee802.org%2FPNP%2Fapproved%2FIEEE_802_WG_PandP_v19.pdf)  
•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)  
–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>  
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•       IEEE 802.11 WG OM: (Approved 10 Nov 2017)  
–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **Chair Minyoung Park (Intel) calls the meeting to order at 11:03pm (ET).**
2. Minyoung goes through the proposed agenda, which also can be found in document 11-20/0695r14. Minyoung gets a question regarding whether he has received an email related to the CIDs in 876r0. Minyoung acknowledges this is the case. No discussion on the agenda, so the agenda will be used.
3. Minyoung reminds about the IEEE patent policy related matters and directs people to the links provided in the invitation and also shown above.
4. Minyoung reminds about attendance.
5. Motions:

Minyoung asks Alfred if he want to discuss the deferred CID 7032, so that also this CID can be included in the motion. Alfred would prefer this and presents the proposed resolution to CID 7032 in document 11-20/0776r1.

CID 7032: No discussion

**Motion #7017**

Move to accept the comment resolution in 11-20/0776r1 for CIDs listed below:

1. 7007, 7008, 7015, 7022, 7028, 7030, 7031, 7032, 7046, 7047, 7048,
2. 7090, 7091, 7114, 7117

**Move:** Alfred Asterjadhi

**Second:** Po-Kai Huang

Motion passes with unanimous consent

**Motion #7018**

Move to accept the comment resolution in 11-20/0864r1 for CIDs listed below:

* 1. 7041, 7098, 7065, 7070, 7082, 7083, 7076, 7084

**Move:** Po-Kai Huang

**Second:** Vinod Kristem

Motion passes with unanimous consent

1. Presentations:

**11-20/0879r1, “PHY Comment resolution for CID 7104”, Vinod Kristem(Intel):** PHY Comment resolution for CID 7104

CID 7104: No discussion.

Document 11-20/0879r1 is ready for motion.

**11-20/0876r0, “Comment resolutions for miscellaneous CIDs part 2”, Minyoung Park(Intel):** This submission proposes resolutions for multiple comments related to TGba D6.0 with the following CIDs:

7067, 7092, 7100, 7101, 7106

CID 7067: No discussion.

CID 7092: No discussion.

CID 7100: No discussion.

CID 7101: No discussion.

CID 7106: No discussion.

**Question/Comment:** I am OK with the resolutions, but I know that the commenter is not on the call and have sent you an email. I will only be OK to motion this document if this has been sorted out with the commenter.

**Answer:** I will discuss this with the commenter. However, in this matter I believe you should vote as an individual so my understanding is then that you personally don’t have an issue with any of the CIDs.

No objections from the group so document 11-20/0876r0 is ready for motion, but Minyoung will check with the commenter before the motion takes place to verify that it is OK.

1. **The meeting is adjourned at 11:32pm (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Al Petrick | Interdigital |
| 5 | Vinod Kristem | Intel |
| 6 | Jon Rosdahl | Qualcomm |
| 7 | Yunsong Yang | Futurewei |
| 8 | Peter Yee | NSA-CSD |
| 9 | Alfred Asterjadhi | Qualcomm |
| 10 | Yongho Seok | Mediatek |

**Teleconference on Monday, June 22 2020, 10:00am –12:00am (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
   1. Use IMAT to register your attendance
5. Motions
   1. 11-20-0879r1, “PHY CR for CID 7104”, Vinod Kristem (Intel Corporation)
   2. 11-20-0876r1, SA1 CR for misc comments-part 2, Minyoung Park (Intel Corporation)
6. Presentations
   1. 11-20-939r0, WUR SA1 comments on draft 6.0, Menzo Wentink (Qualcomm)
7. Adjourn

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–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>  
•       IEEE-SA Patent Policy  
–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>    
–       <https://standards.ieee.org/about/sasb/patcom/>  
 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)  
–       [http://www.ieee802.org/PNP/approved/IEEE\_802\_WG\_PandP\_v19.pdf](https://protect2.fireeye.com/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&u=http%3A%2F%2Fwww.ieee802.org%2FPNP%2Fapproved%2FIEEE_802_WG_PandP_v19.pdf)  
•       IEEE 802 LMSC Chair's Guidelines (Approved 13 Jul 2018)  
–       <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0120-27-0PNP-ieee-802-lmsc-chairs-guidelines.pdf>  
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–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **Chair Minyoung Park (Intel) calls the meeting to order at 10:02am (ET).**
2. Minyoung goes through the proposed agenda, which also can be found in document 11-20/0695r17. No discussion on the agenda, so the agenda will be used.
3. Minyoung reminds about the IEEE patent policy related matters and directs people to the links provided in the invitation and also shown above.
4. Minyoung reminds about attendance.
5. Motions:

**Motion #7019**

Move to accept the comment resolution in 11-20/0879r1 for CIDs listed below:

* 1. 7104

**Move:** Vinod Kristem

**Second:** Po-Kai Huang

Motion passes with unanimous consent

**Motion #7020**

Move to accept the comment resolution in 11-20/0876r1 for CIDs listed below:

* 1. 7067, 7092, 7100, 7101, 7106

**Move:** Vinod Kristem

**Second:** Po-Kai Huang

Motion passes with unanimous consent

1. Presentations:

**11-20/0939r0, “11be WUR SA1 comments on draft 6.0”, Menzo Wentink (Qualcomm):** This document contains proposed resolutions for assorted comments on 802.11ba SA ballot 1 (3 CIDs), on 11ba draft 6.0: CIDs 7035 7055 7056

The presentation is initially made by Minyoung since Menzo had a conflicting meeting. Menzo presented the resolution related to CID 7056.

It is noted that the there is a typo in the title of the document (11be instead of 11ba).

CID 7035: In the added note, it is noted that “unsolicited\_wakeup” should be capitalized. The note is updated accordingly.

CID 7055: No discussion.

CID 7056: No discussion.

Document 11-20/0939r1 will be ready for motion.

Minyoung mentions that there are only two CIDs remaining.

1. **The meeting is adjourned at 10:40am (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Al Petrick | Interdigital |
| 5 | Vinod Kristem | Intel |
| 6 | Xiaofei Wang | Interdigital |
| 7 | Yunsong Yang | Futurewei |
| 8 | Menzo Wentink | Qualcomm |

**Teleconference on Monday, June 29 2020, 5:00pm –7:00pm (ET)**

**Agenda:**

1. Call meeting to order
2. Agenda setting
3. Patent policy (links in the next slide)
4. Attendance:
   1. Use IMAT to register your attendance
5. Motions
   1. 11-20-939r1, WUR SA1 comments on draft 6.0, Menzo Wentink (Qualcomm)
6. Presentations
   1. None
7. Discussion on remaining CIDs
8. Adjourn

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•       Antitrust and Competition Policy  
–       <https://standards.ieee.org/content/dam/ieee-standards/standards/web/documents/other/antitrust.pdf>  
•       IEEE-SA Patent Policy  
–       <http://standards.ieee.org/develop/policies/bylaws/sect6-7.html>    
–       <https://standards.ieee.org/about/sasb/patcom/>  
 •       IEEE 802 Working Group Policies &Procedures (29 Jul 2016)  
–       [http://www.ieee802.org/PNP/approved/IEEE\_802\_WG\_PandP\_v19.pdf](https://protect2.fireeye.com/v1/url?k=5e715d2a-02fb7fe5-5e711db1-0cc47ad93ea4-c0712d99b9889b4a&q=1&e=f61fa0ab-291b-4ac4-a25e-6335a767a660&u=http%3A%2F%2Fwww.ieee802.org%2FPNP%2Fapproved%2FIEEE_802_WG_PandP_v19.pdf)  
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–       <https://mentor.ieee.org/802.11/dcn/14/11-14-0629-22-0000-802-11-operations-manual.docx>

1. **Chair Minyoung Park (Intel) calls the meeting to order at 5:02pm (ET).**
2. Minyoung goes through the proposed agenda, which also can be found in document 11-20/0695r20. No discussion on the agenda, so the agenda will be used.
3. The IEEE patent policy related information can be found using the links provided in 11-20/0695r20 and also provided above-
4. Minyoung reminds about attendance.
5. Motion:

**Motion #7021**

Move to accept the comment resolution in 11-20/0939r1 for CIDs listed below:

* + 7035, 7055, 7056

**Move:** Po-Kai Huang

**Second:** Yunsong Yang

Motion passes with unanimous consent

1. Presentations:
2. Discussion on remaining CIDs

Minyoung ask Po-Kai to confirm that there are only two CIDs remaining. Po-Kai confirms that after motion #7021, only CIDs 7093 and 7094 remain.

Both CIDs are from Xiaofei and there has been discussion on email regarding the two CIDs. The CIDs are related to handover to another AP, and means to determine whether the signal quality of the target AP is sufficiently good. Specifically, it is about how this can be determined based on the WUR beacon, rather than having to listen to the regular beacon using the primary radio. Xiaofei leads the discussion.

Question/Comment (Q): Regarding CID 7093, introducing a threshold also means you need to have margins and in addition I don’t believe it is useful for upper layers.

Answer (A): I don’t believe the margins are so important, it is about relative signal strength between the potential APs to connect to.

Q: Even if it is relative, I believe there may be issues since I don’t think it is clear that the measurement errors are the same for different measurements.

Q: To me this seems to be implementation specific concerning what threshold to use.

A: CID 7094 is about having the ability to do this.

Q: I believe it can already be done. Just because it is not in the specification does not prevent you from implement something like this.

To get a feeling for what the group thinks, it is decided to run two straw polls.

**Straw Poll:**

* **Which option do you prefer for the resolutions for CID 7093?**
  + Option 1: Draft a resolution following the proposed change in the CID
  + Option 2: Change are not needed. Have proposed resolution to “Rejected”
  + Abstain

Option 1/Option 2/Abstain: 3/1/5

**Straw Poll:**

* **Which option do you prefer for the resolutions for CID 7094?**
  + Option 1: Draft a resolution following the proposed change in the CID
  + Option 2: Change are not needed. Have proposed resolution to “Rejected”
  + Abstain

Option 1/Option 2/Abstain: 3/0/6

Minyoung suggests that Xiaofei uses the results from the SPs as guidance for preparing the resolutions to the two CIDs.

1. **The meeting is adjourned at 5:42pm (ET).**

**List of Attendees:**

|  |  |  |
| --- | --- | --- |
|  | Name | Affiliation |
| 1 | Minyoung Park | Intel |
| 2 | Leif Wilhelmsson | Ericsson |
| 3 | Po-Kai Huang | Intel |
| 4 | Al Petrick | Interdigital |
| 5 | Rui Yang | Interdigital |
| 6 | Xiaofei Wang | Interdigital |
| 7 | Yunsong Yang | Futurewei |
| 8 | Peter Yee | NSA-CSD |
| 9 | Yi-Hsiu Wang | Innopeak |
| 10 | Jon Rosdahl | Qualcomm |
| 11 | Dorothy Stanley | HPE |
| 12 | Alfred Asterjadhi | Qualcomm |