IEEE P802.11  
Wireless LANs

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| WLAN Sensing SG – September 2020 Interim Meeting Minutes | | | | |
| Date: 2020-09-15 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
| Claudio da Silva | Intel |  |  | claudio.da.silva@intel.com |
| Tony Xiao Han | Huawei Technologies Co., Ltd |  |  | tony.hanxiao@huawei.com |

Abstract

This document contains the meeting minutes of the one IEEE 802.11 Study Group on WLAN Sensing (SENS SG) session held during the September 2020 interim meeting.

**Teleconference on September 15th, 2020**

1. The IEEE 802.11 SENS SG teleconference was called to order at 9:00am ET by the Chair (Tony Xiao Han, Huawei).
   1. Attendance log can be found in the Appendix.
2. The agenda for the meeting can be found in IEEE 802.11-20/1344r3.
3. Guidelines on “Meeting Protocol, Attendance, Voting & Document Status” (slide 4) were reviewed. No items noted.
4. Patent policy guidelines (slides 6-9) were reviewed. No items noted.
5. Guidelines on the IEEE Codes of Ethics & Conduct, "individual process," and "fair & equitable consideration" (slides 10-12) were reviewed. Required notices (slide 13) were also reviewed. No items noted.
6. The proposed agenda (slide 15) was reviewed and approved without objection.
7. Motion “Move to approve SENS SG minutes of meetings and teleconferences from July 2020 meeting to today:

July plenary: <https://mentor.ieee.org/802.11/dcn/20/11-20-1092-00-SENS-wlan-sensing-sg-july-2020-plenary-meeting-minutes.docx>

Teleconferences July-August-September: <https://mentor.ieee.org/802.11/dcn/20/11-20-1384-00-SENS-wlan-sensing-sg-july-august-and-september-2020-teleconference-meeting-minutes.docx>”

Move: Claudio da Silva (Intel)

Second: Rui Yang (Interdigital)

Discussion: No discussion.

Result: Approved with unanimous consent.

1. Chair reviewed the call for contributions (slide 17), SENS SG timeline (slides 18 and 19), and future teleconference times (slide 20) slides.
2. Presentation of “A brief description of the channel realization generation process,” doc. IEEE 11-20/1334r0, by Meihong Zhang (Huawei).
   1. Technical discussion on various aspects of the proposed approaches to channel modelling, including modelling of moving objects, required time resolution, and impact of TX/RX configuration (e.g., monostatic v bistatic), among others.
3. Presentation of “Golay Sequences and Ambiguity Function,” doc. IEEE 11-20/1444r0, by Assaf Kasher (Qualcomm).
4. Technical discussion on different aspects of the considered sequence designs, such as impact of fractional delay and on the use of use of ambiguity function.
5. Presentation of “Discussion on WLAN sensing sequence design,” doc. IEEE 11-20/1328r0, by Rui Du (Huawei).
6. Technical discussion on different aspects of the considered sequence designs, such as impact of fractional delay and on the use of Golay sequence properties.
7. Meeting adjourned at 11:00pm ET.

**Appendix: Attendance log**

The list below was recorded from IMAT and may be incomplete.

|  |  |
| --- | --- |
| AbidRabbu, Shaima' | Istanbul Medipol University; Vestel |
| Aboulmagd, Osama | Huawei Technologies Co. Ltd |
| Aldana, Carlos | Facebook |
| Au, Kwok Shum | Huawei Technologies Co.,  Ltd |
| Au, Oscar | Origin Wireless |
| Awater, Geert | Qualcomm Incorporated |
| Aygul, Mehmet | Istanbul Medipol University; Vestel |
| Bankov, Dmitry | IITP RAS |
| BECHADERGUE, Bastien | OLEDCOMM |
| Beg, Chris | Cognitive Systems Corp. |
| Berger, Christian | NXP Semiconductors |
| Berkema, Alan | HP Inc. |
| Berner, Stephan | PureLiFi |
| Boldy, David | Broadcom Corporation |
| Bredewoud, Albert | Broadcom Corporation |
| Chayat, Naftali | Vayyar Imaging Ltd. |
| Chen, Canfeng | Xiaomi Inc. |
| Chen, Cheng | Intel Corporation |
| Cheng, Paul | MediaTek Inc. |
| Cheng, Xilin | NXP Semiconductors |
| Chitrakar, Rojan | Panasonic Asia Pacific Pte Ltd. |
| Choi, Jinsoo | LG ELECTRONICS |
| Choo, Seungho | Senscomm Semiconductor Co., Ltd. |
| Ciochina, Dana | Sony Corporation |
| Das, Subir | Perspecta Labs |
| da Silva, Claudio | Intel Corporation |
| de Vegt, Rolf | Qualcomm Incorporated |
| Dong, Xiandong | Xiaomi Inc. |
| Du, Rui | Huawei Technologies Co., Ltd |
| Eitan, Alecsander | Qualcomm Incorporated |
| Fang, Yonggang | ZTE TX Inc |
| feng, Shuling | MediaTek Inc. |
| Grigat, Michael | Deutsche Telekom AG |
| Hamilton, Mark | Ruckus/CommScope |
| Han, Jonghun | SAMSUNG |
| HAN, Xiao | Huawei Technologies Co. Ltd |
| Han, Zhiqiang | ZTE Corporation |
| Handte, Thomas | Sony Corporation |
| Haskou, Abdullah | InterDigital, Inc. |
| Hsiao, Ching-Wen | MediaTek Inc. |
| Hsieh, Hung-Tao | MediaTek Inc. |
| Huang, Lei | Guangdong OPPO Mobile Telecommunications Corp.,Ltd |
| Ikegami, Tetsushi | Meiji University |
| Jang, Insun | LG ELECTRONICS |
| Jones, Allan | Activision |
| JUNG, MYUNG CHEUL | Pantech Inc. |
| Kadampot, Ishaque Ashar | Qualcomm Incorporated |
| Kasher, Assaf | Qualcomm Incorporated |
| Kerry, Stuart | OK-Brit; Self |
| Khorov, Evgeny | IITP RAS |
| Kim, Jeongki | LG ELECTRONICS |
| Kim, Sang Gook | LG ELECTRONICS |
| Kitazawa, Shoichi | Muroran IT |
| Kumar, Manish | Marvell Semiconductor, Inc. |
| Kureev, Aleksey | IITP RAS |
| Kwon, Young Hoon | NXP Semiconductors |
| Lalam, Massinissa | SAGEMCOM SAS |
| Lee, Il-Gu | Sungshin University |
| Lee, Jae Seung | ETRI |
| Levitsky, Ilya | IITP RAS |
| Lim, Dong Guk | LG ELECTRONICS |
| Lindskog, Erik | SAMSUNG |
| LIU, CHENCHEN | Huawei Technologies Co. Ltd |
| Lopez, Miguel | Ericsson AB |
| Ma, Li | MediaTek Inc. |
| Memisoglu, Ebubekir | Istanbul&nbsp;Medipol&nbsp;University;&nbsp;Vestel |
| Merlin, Simone | Qualcomm Incorporated |
| Murti, Wisnu | SeoulTech |
| Ozbakis, Basak | VESTEL Electronics Corp. |
| Park, Eunsung | LG ELECTRONICS |
| Pettersson, Charlie | Ericsson AB |
| Pirhonen, Riku | NXP Semiconductors |
| Pushkarna, Rajat | Panasonic Asia Pacific Pte Ltd. |
| Rafique, Saira | Istanbul Medipol University, Vestel |
| Raissinia, Alireza | Qualcomm Incorporated |
| Rantala, Enrico-Henrik | Nokia |
| RISON, Mark | Samsung Cambridge Solution Centre |
| Sakoda, Kazuyuki | Sony Corporation |
| Sandhu, Shivraj | Qualcomm Incorporated |
| Sarris, Ioannis | u-blox |
| Schmidhammer, Martin | German Aerospace Center (DLR) |
| Sedin, Jonas | Ericsson AB |
| Segev, Jonathan | Intel Corporation |
| Serafimovski, Nikola | pureLiFi |
| Sherlock, Ian | Texas Instruments Incorporated |
| Solaija, Muhammad Sohaib | Istanbul Medipol University; Vestel |
| Sosack, Robert | Molex Incorporated |
| Startsev, Ivan | IITP |
| Stavridis, Athanasios | Ericsson AB |
| Strauch, Paul | Qualcomm Incorporated |
| SUH, JUNG HOON | Huawei Technologies Co. Ltd |
| Sun, Yingxiang | Huawei Technologies Co. Ltd |
| Tan, Danny | Huawei Technologies Co., Ltd |
| Trainin, Solomon | Qualcomm Incorporated |
| Tsai, Tsung-Han | MediaTek Inc. |
| Turkmen, Halise | Vestel |
| Varshney, Prabodh | Nokia |
| Wang, Chao Chun | MediaTek Inc. |
| Wang, Huizhao | Quantenna Communications, Inc. |
| Wang, Pu | Mitsubishi Electric Research Labs (MERL) |
| Want, Roy | Google |
| Wentink, Menzo | Qualcomm Incorporated |
| Xin, Yan | Huawei Technologies Co. Ltd |
| Xue, Qi | Qualcomm Incorporated |
| Xue, Ruifeng | Cisco Systems, Inc. |
| Yang, Bo | Huawei Technologies Co. Ltd |
| Yang, Jay | Nokia |
| YANG, RUI | InterDigital, Inc. |
| Yang, Yunsong | Futurewei Technologies |
| Yano, Kazuto | Advanced Telecommunications Research Institute International (ATR) |
| Yee, James | MediaTek Inc. |
| Yu, Heejung | Korea University |
| Yu, Jian | Huawei Technologies Co. Ltd |
| ZEGRAR, Salah Eddine | Istanbul Medipol University; Vestel |
| Zeng, Ruochen | NXP Semiconductors |
| Zhang, Meihong | Huawei Technologies Co., Ltd |
| Zhu, Xiaoqing | Cisco |

In addition, the presence of the following participants was captured by email/WebEx chat: Mark Popov, Damian Hoffman, Alisa Ugorsky, Shachar Or (all affiliated with Vayyar Imaging Ltd.).