IEEE P802.19
Wireless Coexistence

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| July 2011 Minutes |
|  Date: 17th to 22th July 2011  |
| Author(s): |
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The document records the IEEE 802.19 WG minutes of 802 Wireless Plenary Session in San Francisco, CA, USA, July 17-22, 2011

IEEE 802.19 WG Chair: Steve Shellhammer
IEEE 802.19 WG Vice Chair: Ivan Reede
IEEE 802.19 WG Secretary: Junyi Wang

# MEETING MINUTES

First session of the meeting was called to order on July 18th, Monday, 2011 11:00 AM.

### APPROVE WG AGENDA

The Chair opened the meeting and presented the agenda Document IEEE 802.19-11/66r2

Agenda in Doc 802.19-11/66r2 was approved by unanimous consensus. 11:07AM

### APPROVE MINUTES FROM PREVIOUS SESSION

* The 802.19 WG minutes in doc 801.19-11/56r0 was approved by unanimous consensus 11:08 AM.

### IEEE IPR STATEMENT

The Chair informed the WG about the IEEE patent policy and showed the set of 5 slides identified as “Highlights of the *IEEE-SA Standards Board Bylaws* on Patents in Standards” available at the IEEE PATCOM web site (<http://standards.ieee.org/board/pat/pat-slideset.ppt>). He directed the secretary to record the fact that this presentation was made in the minutes for the meeting.

* 11:10 AM - The WG Chair made a call for essential patents: No one came forward with essential patents.

### REVIEW DRAFT OPERATIONS MANUAL

The chair introduced the new operation manual of 802.19 WG.

The chair made a call for any comments or questions.

R.Gloger: Does it affect voting right. S. Shellhammer: it is not addressed in the rule, the group should decide whether we need or not.

The chair question to the WG that whether we need that to ensure the return rate. If you miss 2 out of 3 voting, you will lose the voting right, the chair made a call for any objection for this.

R. Gloger: For the update version of the same document, the vote should be forwarded to the updated version. The chair agreed.

S. Shellhammer: 2 of 3 is too strict, we need to consider it.

I. Reede suggested to grand the decision right to the chair. The chair objected.

Vote on the following statement

Do you agree that “If you miss a number of voting on CA document, you will lose the document”? No objections

The chair believed that 2 of 3 is too stringent, he suggested deciding the number.

H. Kang: In 802.11, they have mandatory voting, and un-mandatory voting, they just count the mandatory ones. Do we need to point out what is importance? S. Shellhammer: Submitting comments are not counted. Voting on the comment might be important and may affect the voting right.

The chair suggested deciding it on Tuesday.

### AUTOMATION OF ELECTRONIC BALLOTS FOR CA DOCUMENTS

Excel sheet is not an efficient way; the group would like to work it easier.

I .Reede suggested using website to do the electronic ballots. He made a call for volunteer to do the task of creating such a website. No one came forwards.

### REVIEW NEW 802 PARs AND SOLICIT VOLUNTEERS TO DEVELOP COMMENTS

The chair showed the PARs under consideration in 802 website.

The chair introduced the 802.15.4m PAR, 802.22 amendment PAR

The chair made a call for a volunteer to lead a few people to prepare comments. No one came forward. The chair decided to go through this on Tuesday in the WG and prepare the comment

### VOTE TO CONFIRM LIAISION FROM 802.15 TO 802.19

Hyunduk Kang volunteered to be the liaison from 802.15 to 802.19.

**Motion**

To confirm Hyunduk Kang as a liaison from 802.15 to 802.19

Moved by M. Kasslin

Seconded by I. Reede

YES 17 NO 0 ABSTRAIN 0

The vice chair, I. Reede checked and confirmed the voting right in the group.

### LIAISION REPORT FROM 802.11

P. Varshney : 802.11af has the comment spread sheet for letter ballot to approve the draft D1.02. One thing they are going to discuss in this week is the comments from TGac.

### LIAISION REPORT FROM 802.18

There were some ITU-R contributions uploaded to the mentor 802.18 mentor just before the face-to-face meeting. Those are the documents that 802 group may be interested in. The 802.18 group will go though these document in this week. If some of groups are interested in any of documents, they can modify it and submit to ITU-R as a contribution.

### LIAISION REPORT FROM 802.22

The standard has been officially approved. They are going to promote the PAR. In this week, they will be focusing on PAR amendment. There will be a tutorial for geo-location information in this week.

The chair made a call for any other business in WG. None made

The meeting recessed at 11:57PM

### Tuesday AM2

The Meeting called to order by S. Shellhammer, 10:30AM

There are two items in the agenda: PAR comments and CA document ballot process.

**PAR comments**

The Group reviewed 802.15.4m PAR

First comment:

Steve Shelhammer commented that

The scope states that the application of this standard is for command and control However white space availability is not ensured.

I. Reede added:

Availability may be intermittent. The scope should reflect therefore that this band should not be used for mission critical command and control.

A command is generated:

“The scope states that the application of this standard is for command and control However white space availability is not ensured and may be intermittent. The scope should reflect therefore that this band should not be used for mission critical command and control.”

Group discussed if there should be a change in the sentence “It supports accepted methods of TV White Space coexistence in existence at the time of development.”

No changes are suggested.

Group discussed purpose part:

Ivan Reede commented that the term large-scale should be clarified.

Group created the comment:

The purpose uses the phrase “large-scale deployment”. Please clarify if that refers to large area, a large number of devices or both.

Group discussed similar standards and decided that 802.11af, 802.22 and ECMA 392 and 1900.7

Group created comments on similar standards:

In Section 7, you may want to list 802.11af as a similar project since it is a local area network that operates in TV band. You may want to consider listing 802.22 as a similar project since it is a local area network that operates in TV band. ECMA 392 is a MAC/PHY standard in TVWS. IEEE 1900.7 is a new project for a MAC/PHY standard for mobile operation in space. You may also consider as similar standards.

Group discussed 5C;

Group created the comment on Section 3b of the 5C states that the uniqueness is due to the focus on low data rate applications. A 802.22 allocation to an individual stream is approximately 350 kb/s. The PAR states 40 to 2000 kb/s which overlaps with the 802.22

Group added another comment to similar standard part:

Group added the sentence to similar standards. “IEEE 1900.7 will consider such application as utility grid networks and transportation logistics. You may also want to consider those as similar.”

Group discussed about operational TV white space devices:

Groups decided to comment on Section 4a of the 5C states that there are many operational TV white space devices, there are some pilot projects.

Group discussed about proven technology

Decided to add a comment about changing technology to “15.4 technologies”

Groups started to discuss New PAR from 802.22, 802.22a

S. Shelhammer added the comment: In the need the phrase “purposed-designed ” is awkward.

The text in section 8.1 of the PAR is included earlier in the need section.

P. Varshney added that 5c mentions use for disaster recovery and homeland security however TVWS availability is intermittent.

I. Reede added, in technical feasibility section of the 5C please state whether the WG will produce a CA document.

In the compatibility section of the 5C please include text about compatibility with the 802.19.1 standard.

Final List of the comments are

**Comments on PARs**

**802.15.4m**

1. The scope states that the application of this standard is for “command and control.” However, TV white space availability is not ensured and may be intermittent. The scope should therefore reflect that this band should not be used for mission critical command and control applications.
2. The purpose and the need sections use the phrase “large scale deployment.” Please clarify if this refers to a large area, a large number of devices, or both.
3. In Section 7 you may want to list 802.11af as a similar project since it is a local area network that operates in the TV white space. You may also want to consider listing the 802.22 standard as similar. ECMA 392 is a MAC/PHY standard in the TV white space. IEEE 1900.7 is a new project for a MAC/PHY standard for mobile operation in white space considering such potential applications as utility grid networks and transportation logistics. You may also want to consider those as similar.
4. Section 3b of the 5C states that the uniqueness is due to the focus on low data rate applications. An 802.22 allocation to an individual subchannel is approximately 350 kb/s. The PAR states the data rate spans 40 to 2000 kb/s which overlaps the rates in 802.22.
5. Section 4a of the 5C states that there are many operational TV white space devices, which is incorrect. There have been some pilot projects however there are no FCC approved TV white space products.
6. In Section 4b of the 5C please change “technology” to “802.15.4 technology.”
7. In the Compatibility section of the 5C please include text as to how 802.15.4m will enhance compatibility with the upcoming 802.19.1 standard

**802.22**

1. In the Need section of the PAR the phrase “purposed-designed” is awkward. Please use a clearer term.
2. The text in Section 8.1 of the PAR is included earlier in the Need section, please remove the second occurrence of this text.
3. In the Section 1a of the 5C it mentions use for disaster recovery and homeland security; however, TV white space availability is intermittent. It does not seem like TV white space should be used for these mission critical applications.
4. In the Technical Feasibility section of the 5C please state whether the WG will produce a CA document.
5. In the Compatibility section of the 5C please include text as to how 802.22a will enhance compatibility with the upcoming 802.19.1 standard.

**Group voted on each comment**

802.15.4m

Comment 1 , 12 Yes 0 No 1 Abstain 0

Comment 2 , 10 Yes 0 No 1 Abstain 0

Comment 3 , 12 Yes 0 No 1 Abstain 0

Comment 4 , 12 Yes 2 No 0 Abstain 0

Comment 5 , 13 Yes 0 No 0 Abstain 0

Comment 6 , Unanimous consent

Comment 7 , Unanimous consent

802.22

Comment 1 , Unanimous consent

Comment 2, Unanimous consent

Comment 3 , Unanimous consent

Comment 4, Unanimous consent

Comment 5, Unanimous consent

Group discussed on 802.19 Operations Manual,

I. Reede suggested changes in Figure 1.

Group made editorial corrections on the document.

Group decided to vote on the new document on Thursday.

The meeting recessed at 11:40AM

### Thursday PM1

The chair called the meeting to order 1:33PM

**VOTE ON OPERATIONS MANUAL**

The chair reviewed the operation manual

**Motion**

To approve IEEE 802.19 WG operation manual

Moved by T. Baykas

Seconded by J. Wang

YES 9 NO 0 NO 0

**TELECONFERENCE SCHEDULING**

The chair call objections to set the teleconference as follow. None objections. 1:50PM

Conference calls are scheduled in the following weeks

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| --- | --- | --- | --- | --- |
| **Day** | **Date** | **Start Time** | **End Time** | **Call Host** |
| Wednesday | August 10 | 1:00 AM Eastern Time | 2:00 AM Eastern Time | Tuncer Baykas |
| Wednesday | August 17 | 1:00 AM Eastern Time | 2:00 AM Eastern Time | Tuncer Baykas |
| Wednesday | August 24 | 1:00 AM Eastern Time | 2:00 AM Eastern Time | Tuncer Baykas |
| Wednesday | August 31 | 1:00 AM Eastern Time | 2:00 AM Eastern Time | Tuncer Baykas |
| Wednesday | September 7 | 1:00 AM Eastern Time | 2:00 AM Eastern Time | Tuncer Baykas |
| Wednesday | September 14 | 1:00 AM Eastern Time | 2:00 AM Eastern Time | Tuncer Baykas |

**LIAISON REPORT FROM 802.11**

P. Varshney presented the liaison report from 802.11, 11/080r0

**LIAISON REPORT FROM 802.15**

H. Kang presented the liaison report from 802.15, 11/082r0

**LIAISON REPORT FROM 802.18**

J. Wang presented the liaison report from 802.18, 11/081r0

**LIAISON REPORT FROM 802.22**

T. Baykas: 802.22 wanted to have study group for smart grip, they asked EC to start the SG. They have their own PAR on MIB already and will send their PAR

### NEW BUSINESS

The WG chair called for any new business. No one came forwards with new bunnies .3:03 AM

**Motion**

To adjourn the 802.19 WG meeting in San Francisco, July 12-22, 2011

Motion passed by unanimous consensus.

IEEE 802.19 WG Meeting adjourned 9:40 PM

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| --- | --- | --- | --- |
| **Last Name** | **First Name** | **Middle Name** | **Affiliation** |
| Baykas | Tuncer |  | NICT |
| Carney | William |  | Sony Corporation |
| Chang | Soo-Young |  | California State University, Sacramento (CSUS) |
| Cheong | Minho |  | ETRI |
| Choi | Sangsung |  | ETRI |
| Demessie | Yohannes |  | NICT |
| Doss | William |  | Shure Inc. |
| Filin | Stanislav |  | NICT |
| Ghosh | Chittabrata |  | Nokia |
| Gloger | Reinhard |  | Nokia Siemens Networks |
| Harada | Hiroshi |  | NICT |
| Hsieh | Ching-T |  | Industrial Technology Research Institute |
| Hwang | Sung | Hyun | ETRI |
| Jeong | Byung | Jang | ETRI |
| jo | junho |  | LG ELECTRONICS |
| Junell | Jari |  | Nokia |
| Kafle | Padam |  | Nokia |
| Kang | Hyunduk |  | ETRI |
| KANG | Kyu-Min |  | ETRI |
| Kasslin | Mika |  | Nokia |
| Kato | Shuzo |  | Tohoku University |
| Kim | Bonghoe |  | LG ELECTRONICS |
| Kim | Byoung-Hoon |  | LG ELECTRONICS |
| Kim | Eun | Sun | LG ELECTRONICS |
| Kim | Suhwook |  | LG ELECTRONICS |
| Ko | Gwangzeen |  | ETRI |
| Koskela | Timo |  | Renesas Mobile Corporation |
| Kwak | Joseph |  | InterDigital Communications, LLC |
| Lee | Donghun |  | ETRI |
| Lee | Jae | Seung | ETRI |
| Liru | Lu |  | NICT |
| MURAI | SHINJI |  | Hitachi, Ltd. |
| Oh | Mi-Kyung |  | ETRI |
| Rahman | Mohammad |  | NICT |
| Reede | Ivan |  | AmeriSys Inc. |
| Sato | Naotaka |  | Sony Corporation |
| Sawai | Ryo |  | Sony Corporation |
| Shellhammer | Stephen |  | Qualcomm Incorporated |
| Sherman | Matthew |  | BAE Systems |
| Song | Chunyi |  | NICT |
| Sum | Chin-Sean |  | NICT |
| Sun | Chen |  | NICT |
| Tran | Ha | Nguyen | NICT |
| Varshney | Prabodh |  | Nokia |
| Villardi | Gabriel |  | NICT |
| Wang | Junyi |  | NICT |
| Woo | Pyo | Chang | NICT |
| Yu | Heejung |  | ETRI |
| Zhang | Xin |  | NICT |