IEEE P802.19
Wireless Coexistence

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| November 2011 TG1 Minutes |
|  Date: 7th to 11th November 2011  |
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The document records the IEEE 802.19 TG1 minutes of 802 Wireless Plenary Session in Atlanta, GA, USA, Nov. 7-11, 2011.

IEEE 802.19 TG1 Chair: Tuncer Baykas
IEEE 802.19 TG1 Vice Chair: Mika Kasslin
IEEE 802.19 TG1 Secretary: Junyi Wang

# MEETING MINUTES

First session of the meeting was called to order by the TG1 chair Tuncer Baykas, Sept. 19, 2011 at 1:30 PM.

### APPROVE AGENDA

The chair presented the agenda in 802.19-11/124r0.

M. Kasslin requested time slot for the presentation for document 129r0. The chair scheduled it in Monday PM1

D. Lee requested time slot for the presentation on geolocation database issue of OFCOM and FCC. The chair scheduled it in Monday PM2.

M. Kasslin requested time slot for the presentation on the discovery terminology. The chair scheduled in Tuesday AM1.

Discussion on description of the mechanism on Coexistence discovery scheme is scheduled in Tuesday AM1.

Discussion on CM interactions is scheduled in Tuesday PM1

Discussion on coexistence decision making algorithm is scheduled in PM1

Y.Yi requested time slot for presentation on coexistence services. The chair scheduled in Tuesday PM1

Y.Yi requested time slot for presentation on revised normative text of section 5.2. The chair scheduled in Wednesday AM1

Y.Yi requested time slot for presentation on the Master CM selection algorithm. The chair scheduled in Wednesday AM1

H. Kang requested a time slot for presentation on the revised normative text of Chapter 5.2 to 5.4

The agenda was updated to rev1 due to the above changes.

**Motion**

To approve the agenda in the Document 802.19-11/124r1.

Moved by M. Kasslin

Seconded by J. Wang

Agenda approved with unanimous consensus.

### APPROVAL OF MINUTES FROM MAY MEETING

**Motion**

To approve the 802.19 TG1 November minutes in the document 802.19-11/116r1, and teleconference minutes in the documents 802.19-11/117r0 and 802.19-11/119r0.

Motion passed with unanimous consensus.

### IEEE IPR STATEMENT

The TG Chair informed the TAG 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.

* 2:20 PM – The Chair made a call for essential patents: No one came forwards with essential patent.

### 802.19 TG1 Opening Report

The chair presented the opening report in the document 802.19-11/126r0.

The chair indicated that we had received 23 general comments, 54 technique comments and 35 editorial comments in the second WG review.

The chair asked how the group would like to go with the comment resolutions.

M. Kasslin indicated that comment review is valuable. He suggested resolving the comments before rushing into new review.

Y. Yi recommended to make the draft readable by starting from the detail descriptions. She suggested having multiple sub-editors for each chapter or for each topic.

M. Kasslin: we need to have something to glue the sections.

H. Kang: Focusing on description for each topic may take too much time. He suggested multiple editors.

Marc Commings recommended setting up the name and the order for each chapter, and assigning the chapters.

M. Kasslin suggested having high level descriptions on some key topics.

 M. Kasslin suggested having list of items first and starts discussion from those.

**Some open issues for discussions in the document 802.19-11/129r0 presented by M. Kasslin, Nokia**

M. Commings questioned that whether the user means a machine. I.Reede indicated that the original meaning of “user” should be a human being.

I. Reede: Does a receiving only device could be a coexistence system user? M. Kasslin: We do not want to provide the protection for primary user.

I.Reede indicated that the interconnections should be between master CMs. H. Kang was against for it since slave CM s are not just repeaters. M. Kassilin amended that slave CMs are under the control of master CMs.

 I.Reede information change called event, 802.22 can trigger the event.

Y. YI recommended before going to system description, it is better to have one sentence statement on the purpose of the chapter.

### Monday PM2

**Geo-location database issue of OFCOM in the document 127r0, presented by D. Lee, ETRI.**

M. Commings: Do they need to go to the OFCOM database every time when they are going to find the server. I. Reede: YES.

D. Lee indicated that in the OFCOM database specifications, after master devices get available channel list from a database, it can broadcast this to devices.

**TVWS White Space Database activities in the document 128r0, presented by D. Lee, ETRI.**

M.Comming: When is the latest version on Google proposal? D. Lee: In Jan 2010. They are no longer on this topic.

Y. Yi: Will the list of channels be protected in a security way. M. Comming: They have no final decision on that.

It was indicated that in OFCOM the database tells you the list of available channels together with validity time.

In 802.19, at least we need to define the requirement for CM to get information from database.

The chair suggested changing agenda by postponing comment review till tomorrow AM1.

The chair called objections on agenda changes. No objections.

### Tuesday AM1

The TG chair called the meeting to order at 8:05AM

The comments are reviewed and classified.

It was questioned on how about the remained comments in review 1. The chair said the commenter may resend those comments again in review 2 if they want them to be resolved.

The chair asked the group how to do the voting for comment resolutions

H. Kang suggested having one motion in a specified time slot.

The chair made a call for any objection. No objection.

The chair suggested having motion in AM2 Thursday, and made a call for any objections. No objection

**Motion**

To approve agenda in the Document 802.19-11/124r3

Moved by I.Reede

Seconded by J. Wang

Motion approved with unanimous consensus .

**Coexistence discovery terminology IEEE 802.19-11/107r2 presented by M. Kasslin, Nokia**

There were some discussions on whether we need to classify the Tx and Rx for different coexistence mechanisms.

From the Mika’s prospective, the coexistence shall be done from the network perspective, while I. Reede insisted on that it should be considered from the link perspective

There were some discussions on whether the distance may impact on the consensus of link or network.

### Tuesday AM2

The TG chair called the meeting to order at 10:45AM

The technical editors indicated that there are some sections with TBDs, if we would like work for WG LB, we should provide resolutions to those TBDs or remove TBDs.

The chair made a call for any questions and comments to the technical editor. No one came forwards.

Jame Gilb made a presentation on “How to prove it”

The session recessed at 12AM

### Tuesday PM1

The chair called the meeting to order at 1:35PM

M. Kasslin continued his presentation

**Coexistence discovery terminology IEEE 802.19-11/107r2 presented by M. Kasslin, Nokia**

Y. Yi: Are you going to put some normative text in the draft. M. Kasslin: The normative text shall go but from a different proposal.

There were some discussions on who does the coexistence discovery. M. Kasslin said that there is nothing changed in this document as we have agreed.

It was indicated there are some terms whose definitions are unclear to the group.

M. Kasslin claimed that the CDIS in the current draft does not work since there is no internal structure description for the CDIS.

The chair initialled the discussions on the alternative term for the term “neighbour”.

S. Shellhammer: The term “User” in general means people; It is not a good term. He suggested using normal term.

J. Kwak required more details before we made decisions.

H. Kang questioned on whether the “coexistence system user” can be understood.

I. Reede: what Mika defined is a class of devices. He proposed to use client.

**Straw poll**:

Do you want to keep TVBD or TVBD network?

Option 1 : To keep (3)

Option 2: To change (7)

I . Reede proposed a new term and definition as follows:

A White Space Object: Objects in the class that uses the services of the 802.19.1 coexistence system via a CE. Object in this class may, for example, be entire TVBD networks or individual TV band devices, etc...

There were some discussions on the term “object”.

The session recessed at 3:30 PM

### Tuesday PM2

The chair called the meeting to order at 4:12PM

The chair made a call for any other terms to be discussed. No one came forward.

The session recessed at 4:15PM

### Wednesday AM1

The chair called the meeting to order at 8:05PM

**Comment resolution on CID 40 43 44 in the document 802.19-11/132r0, presented by Y.Yi , LG**

J. Wang: What do you mean by CM coverage? Y. Yi: union of all TVBD coverage.

I. Reede indicated that the communication coverage mentioned by Y. Yi should be the interference coverage. Y. Yi agreed.

I.Reede indicated that TVBD or CE is not even aware of the existence of the CDIS.

J. Wang indicated that the neighbour calculation should not based on the request. Y. Yi agreed.

J. Jari: Is coexistence interference channel map newly defined? Y. Yi: No. it is in the draft.

M. Kasslin: Occupancy estimation can be done by using measurement request although it is not well defined.

J. Wang: Is this occupancy in the perspective of time. Y. Yi: YES

K. Doss: Is it possible to share the channel in the frequency domain? Y. Yi: Currently we have no good idea on that.

It was indicated that the sourceIdentifier and destinationIdentifier are confusing.

Y. Yi indicated that CM selection can be used to change the CM topology in the sense of changing inter-CM neighbour into intra-CM neighbour

It was indicated that when CM switch happens, the registration information will be shared between CMs.

M. Kasslin: Not all CMs need to support master CM selections. Y. Yi: No

The meeting recessed at 9:30AM

### Wednesday AM2

The chair called the meeting to order at 10:35PM

Coexistence system overview presented by M. Kasslin, Nokia

I.Reede: CDIS should not be only one. He suggested describing CDIS as a cloud and marked as CDIS service. M. Kasslin agreed.

Mark: The text should be before system architecture, for example, in 3.2.

Figure 1 shows logic entities in the system.

There were some discussions whether the example may be a duplicated one with scenarios.

**Proposed resolution to comment to ASN.1 data type definition for COEX\_TR\_SAP in the document 802.19-11/121r0, presented by Junyi Wang, NICT**

**Proposed resolution to comment to ASN.1 data type definition for COEX\_MEDIA\_SAP in the document 802.19-11/122ro**

Some data types were updated by the group. The presenter promised to revise them according to the group suggestion and upload a new version to the mentor.

### Wednesday PM1

**Comment Resolution regarding to CID 50 in the document 802.19-11/137r0, presented by H. Kang , ETRI**

**Comment Resolution regarding to CID 52 in the document 802.19-11/138r0, presented by H. Kang, ETRI**

It is suggested to remove the sentence to state that TVBD can subscribe one service at one time since it is duplicated.

**Comment Resolution regarding to CID 53 in the document 802.19-11/139r0, presented by H. Kang, ETRI**

Editorial improvements made.

**Comment Resolution regarding to CID 54 in the document 802.19-11/140r0, presented by H. Kang, ETRI**

Editorial improvements made.

**Comment Resolutions regarding to CID 73 and 74 in the document 802.19-11/141r0, presented by H. Lee, ETRI**

**Comment Resolutions regarding to CID 75 in the document 802.19-11/142r0, presented by H. Lee, ETRI**

The meeting recessed at 0:10PM

### Wednesday PM2

The meeting was called to order 4:05PM

**A coexistence decision making algorithm in the document 802.19-11/136r0, presented by J. Jari ,Nokia**

It was indicated that it is hard to define the fairness, the fairness should not be considered in the algorithm.

It was indicated that the main object of the decision making algorithm shall be according some values we can define, like to minimize the aggregated interference over the whole network.

It was indicated that we should consider how to share the balance.

It was indicated that the algorithm may trigger the propagation of decision-making.

In the document 802.19-11/138r0 , 139r0, the figure reference is wrong, the presenter corrected and showed to the group. The document is updated into 802.19-11/138r1, 139r1.

The chair made a call for any presentation. R. Sawai, from Sony came forwards.

Comment resolution for CID 112 in the document 802.19-11/131r0, from R. Sawai, Sony cooperation.

The meeting recessed at 5:30PM

### Thursday AM1

The Chair called the meeting to order at 8:00AM

**Comment Resolution for CID 88, 91, 92,93, 95-97, 99 -104, presented by J. Wang, NICT.**

**Comment Resolution CID 40 in the document 802.19-11/133r0 , presented by Y. YI, LG Electronics.**

**Comment resolution CID 42, 43 in the document 8902.19-11/134r0, presented by Y. YI, LG Electronics.**

**Comment resolution - CID 44 in the document 802.19-11/134r0, presented by Y. Yi, LG Electronics**

Gabor Bajko gave an introduction for the status of database design in IETF.

The meeting recessed at 9:20PM

### Thursday AM2

The chair called the meeting to order 10:35AM

H. Kang corrected some typos of the document title in the document 802.19-11/137r2 , 138r2, 139r2, 140r2 and showed them to the group.

**Motion**

To approve comment response for CID 1 in 11/ 121r0, comment response for CID 2 in 122r2 to be applied to the candidate draft standard P802-19-1-DF1

Moved by J. Wang

Seconded by H. Kang

Motion approved unanimous consensus.

**Motion**

To approve comment response for CID 47, 48, 49, 68 in 11/ 145r0, CID 50 in 11/137r2, CID 52 in 11/138r2, CID 53 in 11/139r2, CID 54 in 11/140r2 , CID 73, 74 in 11/141r0, CID 75 in 11/142r0 to be applied to the candidate draft standard P802-19-1-DF1

Moved by H. Kang

Seconded by J. Wang

Motion approved unanimous consensus.

**Motion**

To approve comment response for CID 88, 91, 92, 93, 95 96, 99, 100, 101, 102, 103, 104 in 11/143r0 to be applied to the candidate draft standard P802-19-1-DF1

Moved by Junyi Wang

Seconded by D. Lee

Motion approved unanimous consensus.

The chair made a call for any other one who would like to make motions in this session. No one came forwards with new motions.

The session recessed at 11:20AM

### Thursday PM1

The session called to order 1:35 PM

The time slot is open for motion. The chair made a call for any motion. No one came forwards.

**Strawpoll**

Which Lunch option would you prefer at the March 2012 Plenary Session in Waikoloa, Hawaii?

 Choice 1: Lunch provided, ($200 mtg fee increase) (0)

 Choice 2: Lunch provided, ($100 mtg fee increase, plus subsidy from the 802 Operating Reserve) (Buffet style -- similar to what has been done during the Wireless Interims). (11 for this option)

 Choice 3: Grab and go lunch - paid for by the attendee -- (unknown specific cost -- 802 minimum guarantees). (1 for this option)

 Choice 4: Extend lunch time (WG basis/choice) to allow folks to go to the hotel restaurants or malls that are about 1 mile away. (0)

The chair made a call for any objections to adjourn the TG1 Atlanta meeting. No objections.

TG adjourned 1:50PM