IEEE P802.19
Wireless Coexistence

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| July 2010 TG1 Minutes |
| Date: 12th to 15th July 2010  |
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# MEETING MINUTES

First session of the meeting was called to order on Monday 14 July 2010 at 13.40.

### APPROVE AGENDA

The Chairman opened the meeting and introduced the agenda in Document 802.19-10-0093.

The agenda was changed and approved at 14:00.

### 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.

* 14:05 - The WG Chair made a call for essential patterns: none made.

### REMINDER ABOUT USE OF AUTOMATED ATTENDANCE SOFTWARE

The attendance system was reviewed and all delegates were asked to report any problems logging attendance to the WG Vice Chair.

# Main Body

Note: The italic indented text is copied directly from the presented documents.

### Monday PM1

### IEEE 802.19-10/0092 802.19 TG 1 July Meeting Opening Report

Presented by Tuncer Baykas this document gives an outline of the work carried out since the last 802.19 plenary meeting.

Joe Kwak presented the status of the workshop.

* The workshop is progressing well.
* Expects 40 - 100 attendees

**Approval of the May interim minutes**

**IEEE 802.19-10/0084**

The minutes were approved by unanimous consent.

**Tutorial material review**

This review was started in the WG meeting.

**IEEE 802.19-10/0085R1:** 802.19 TG1 and System Design Document

Tuncer Baykas introduced his tutorial slides.

**IEEE 802.19-10/0080R2:** possible solutions to different aspects of the architecture

Mika Kasslin introduced his tutorial slides.

14:22 Meeting recessed to allow the Tuncer Baykas to merge the slides from IEEE802.19-10/89R2, IEEE802.19-10/87R1, IEEE 802.19-10/0085R1 and IEEE 802.19-10/0080R2

14:50: Meeting called to order.

Tuncer Baykas presented the merge slide set.

The slides were reviewed and approved by the group

Meeting recessed at 15:15

Meeting called to order 14:00

**Preparation for joint meetings**

It was decided that for the joint meeting with 802.21 that a cut down version of the tutorial material would be presented to allow the 802.21 members to ask questions.

It is expected that 802.21 would want to make a contribution on their work.

Meeting reassessed.

**Tuesday AM2**

Meeting called to order 10:34

**IEEE 802.19-10/0042**: Geolocation for cognitive radio

Presentation by Andy Gowans, Ofcom

Do the sense levels take into DTT as well as microphones? Yes.

How will you calculate the coverage?

Andy showed a UK contribution to the June SE43 meeting that gave details on the model to predict the interference SE43(10)94.

**Teleconference minutes**

Motion to approve teleconference minutes

Moved by Ivan Reede

Second: Junyi Wang

**Agenda revision**

Motion to update agenda **IEEE 802.19-10/93r2**

Moved by Ivan Reede

Seconded: Alex Reznik

Approved

**IEEE 802.19-10/0094:** Data representation

Presented by Chen SUN

* ***Different standards use different ways to define data types.***
* ***We would like to know what is the best way for P802.19.1***

This topic was extensively discussed but with no final agreement, it was decided that the group would return to this topic later in the week.

**Joint meeting 802.21 and 802.19**

The joint session was call to order and the 802.19 group introduced two presentations to inform 802.21 of the progress of the TG.

**IEEE 802.19-10/96r1:** Tutorial slides

Tuncer Baykas gave this presentation to set the background of the work being carried out in 802.19.1 and to set out the current timescales for the drafting of this standard.

**IEEE 802.19-10/ 87r2:** Use case draft 1

Alex Reznik presented these slides to give 802.21 more detail on the potential use cases that may require the 802.19.1 standard.

Members of the 802.21 working group then presented two documents setting out the key features of the 802.21 work and how this related to the call for proposals made by by 802.19.1

**IEEE802.21-10-129 -02:** IEEE 802.21 Key Features

Abstract: This contribution highlights the key features of IEEE 802.21 defines MIH services to facilitate the discussion with IEEE 802.19.1 TG

**IEEE802.21-10-146-01**: IEEE 802.19.1 as a Media Independence Service Layer

Abstract: Relation between IEEE 802.19.1 and Media Independence

The 802.19 WG chair encouraged submissions into 802.19, as 802.21 would not be meeting at the same interim meeting as 802.19 this submission could be made into the November Plenary meeting.

**Wednesday AM1**

Meeting called to order 08:15

**IEEE 802.19-10/95**: The Geographic Electromagnetic Radiation Domain Control System, part II (GERDCSTM)

This document was presented by Ivan Reede

*Adjustments to convert previous presentation to SDD semantics and model*

**Wednesday AM2**

Meeting called to order 12:00

This session was after the WG finished.

The agenda was modified for the Thursday sessions and posted.

The call for proposals was discussed and it was confirmed that contributions for:

* September are for the system overview and reference model sections
* November is for the other sections of the standard.

By November there should be a full draft proposed standard, but that there can be changes from September to January.

Contributions can be brought in at any time; these can then be merged into the different proposed standards.

Meeting recess@12:30

**Thursday AM1**

08:15 meeting opened

**Agenda revision**

Motion to update agenda IEEE 802.19-10/93r3

Moved by Mika Kasslin

Seconded: Junyi Wang

Approved

**IEEE 802.19-10/101:** Expectation for IEEE P802.19.1 system from a primary protection viewpoint

This paper was presented by Ryo Sawai.

*Expectation for IEEE P802.19.1 system from a primary protection viewpoint is briefly summarized here*

* + - *“Interference protection requirements: (1) protected contour , (2) required separation distance ” and “TV bands database” in FCC-08-260 are focused in this contribution*

**Straw pole**

Are you interested in the topic on the possible solutions of IEEE P802.19.1 system from primary protection viewpoint in submission (IEEE 802.19-10-101-00-0001)

Vote

Yes: 10

No: 0

**IEEE 802.19-10/105: Coexistence Decision Making Topologies**

* *In this slide set, we review the possible coexistence topologies and its according possible system architectures*
* *We also point out some information to be considered while decision making*

**IEEE 802.19-10/106: Channel Set Transition for 802.19.1 Logical Entities**

*This presentation defines channel set transition diagram/events/matrix based on the proposed channel classification for 802.19.1 logical entities in IEEE 802.19-10/0078r1*

Meeting adjourned 10:00

Meeting reopened 10:37

Discussion on the data types, the different notations that could be used and how they should be standardised. The naming of the internal interfaces is not as critical it is the external messages that need to be defined in more detail.

Tuncer Baykas is to create a document summarising discussion.

Recess 12:27

**Thursday PM2**

Called to order 13:43

**IEEE 802.19-10/104: Channel Selection Support in TVWS**

This document was presented by Alex Reznik.

* ***TVWS Network has flexibility in selecting both operating channels and operating bandwidth***
	+ *Network must use only unoccupied channels*
	+ *Can group adjacent unoccupied channels to create a single wider BW channel*
* ***This creates a coexistence problem***
	+ *Channel selection process may make it easier – or harder – for other networks to gain access to higher BW channels*
* ***Coexistence algorithms for channel selection/re-selection can alleviate this problem***
	+ *Demonstrate how this is done using a typical architecture*

**Straw poll**

Do you agree that for purposes of use by the 802.19.1 system ‘location’ should refer to an specific area rather then a specific point

Discussion

* Does this cover the master and the slave, yes.
* This is a internal 802.19 decision and does not align with the FCC
* The FCC defines a point, 802.19 wants to define an area which is the same approach with used by other regulators such as Ofcom.
* Could these two options lead to two different network designs, yes

Poll

Yes: 7

No: 0

Abstain: 6

**IEEE 802.19-10/98: 802.19.1 Security Procedures**

This document was presented by Alex Reznik.

* ***We propose a set of security procedures for 802.19.1***
	+ *Address SDD Requirement*
	+ *Consistent with our concept of operation*
		- *Presented in contribution 19-10-0098*

There will be more information to be presented at later meetings but no text proposals on this until later on in the process.

There is a general discussion whether this is necessary to have in the standards first draft and then add it to a later version. It may be that we are not the right group to develop this security issue as this is normally carried out by the small group of security issues.

There was not agreement if the security should be amendment or added to the first draft.

Meeting adjourned 15:30

Called to order 16:02

Tuncer provided the summary of the interface discussion

It was agreed to discuss this in more detail during the teleconferences, these teleconferences will also cover details for the November and January sessions.

**Motion to adjourn**

Moved by Stanislav Filin

Seconded Mika Kasslin

No objections

TG1 adjourned 16:06

**Attendance**

