IEEE P802.19  
Wireless Coexistence

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| [DRAFT - Meeting Minutes for the 802.19 Coexistence TVSG joint teleconference with 802.22 , date: 12/11/09] | | | | |
| Date: | | | | |
| Author(s): | | | | |
| Name | Company | Address | Phone | email |
| Mark Austin | Ofcom | 2a Riverside House, Southwark Bridge Road, London, UK | +44 207783 4364 | Mark.austin@ofcom.org.uk |
|  |  |  |  |  |

Abstract.

* The 802.22 chairman presented the groups two proposed PAR’s and answered questions raised by the group.
* The 802.19 PAR was not presented as the meeting timed out, Mark Cummings offered to discuss the PAR or the presentation contained in IEEE802.19-09/089 with any interested parties.

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**ATTENDANCE**

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| **Attendees** | |
| **Name** | **Affiliation** |
| Ivan Reede (Acting Chairman) | Amerisys |
| Mark Austin (Secretary) | Ofcom |
| Harry Bims | Bims Laboratories Inc |
| Chen Sun | NICT |
| James Pace | Silversprings |
| Ari Ahtiainen | Nokia |
| Rich Kennedy | RIM |
| Wen Gao | Thomson |
| Hou-Shin Chen | Thomson |
| Tom Gurley | IEEE Broadcast Technology Society (IEEE-BTS) |
| Winston Caldwell | Fox |
| Bruce Kraemer | Marvell Semiconductors Inc |
| Joe Kwak | InterDigitial Communications |
| Richard Paine | TBC |
| Wendong HU | STmicroelectronics |
| Aziz Rahman | NICT, Japan |
| Gerard Chouinard | CRC |
| Mark Cummings | SWIM |

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| **1.00** |  | **Meeting called to order** | **Chair** | **0** | **17.04** |

The meeting was called to order by the 802.19 study group on TV White Space Coexistence Acting Chair.

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| **2.00** |  | **Attendance** | **Chair** | **6** | **17.04** |

The acting chair requested the attendees to send their name and organisation to the Secretary.

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| **3.00** |  | **REVIEW IEEE PATENT POLICY** | **Chair** | **2** | **17.05** |

A link to the patent policy slides was sent with the agenda, delegates were asked to read this and if they have any questions to send them to PATCOM

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| 4.00 |  | **Approval of meeting minutes** | **Chair** |  |  |

N/A

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| 5.00 |  | **Approval of agenda** | **Chair** |  | **17:06** |

**Agenda**

* Attendance
* The IEEE patent policy is available at the following location
  + <http://standards.ieee.org/board/pat/pat-slideset.pdf>
* Overview of 802.22 modified PAR/5C and Q&A
* Overview of 802.22.3 PAR/5C and Q&A
* Overview of 802.19.1 PAR/5C and Q&A

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| **6.00** |  | **Discussions** |  |  | **17:09** |

Note: The following minutes are a guide to the discussion that was held not all comments have been captured and some of the following comments have been summarised.

**Document IEEE 802.22-09/0159 Revision 8: 802.22 PAR**

Wendong presented this document highlighting the main changes that have been made to this modified PAR.

Unknown: You have changed from professional fixed base station to professionally installed base stations?

Wendong: Yes, but this is in the current draft that has been modified from comments received so far.

Ivan: So the wording will be professionally installed fixed base stations?

Wendong: This is has not been decided yet.

Unknown: Would the cognitive apply to both the MAC and PHY?

Wendong: Yes

Ivan: 802.22 PAR changed to reflect the current FCC rules, changes to the regulatory environment.

Gerard: 802.22 in 2004 commented to the FCC that portable would not work and only fixed user terminal would work. Now that the FCC has allowed portable 802.22 is extending its PAR to cover this but for portable devices that would talk to the base station, so the model still stands where the base station is the central point CPE either fixed or portable are slaved to the base station, which will not be the case for the new 802.22.3 proposal.

Wendong: The other change in 802.22.3 is to allow the base station to be portable as well.

Wendong clarified that the PAR in document 802.22-09/0158 is to the base 802.22 standard.

Wendong then presented the new 5C for this PAR, this PAR was started with the work being carried out in the FCC this work is now being looked at in other countries such as Ofcom in the UK.

There were no comments on the 5C.

**Document IEEE 802.22-09/0165 Revision 6: 802.22.3 PAR**

Wendong presented this new proposed PAR, this addresses a new area of WRAN operation and is independent of the base project as it is addressing different type of operation. The two projects will be compatible with each other but the process of development is independent of each other.

Bruce: The base project is point to multi-point and now proposing to add a personal portable and in 802.22.3 you are proposing a personal portable device, would these two devices be able to talk to each other?

Wendong: That is the intention to allow the devices from each project to talk to each other.

Ivan: 802.22.3 is similar to the 802.11 Wireless Distribution System (WDS)

Bruce: so 802.22.3 is adding a relay function?

Wendong: No that is not correct; section 8.1 will add more explanation.

Bruce: If the 802.22 base standard was to disappear would it effect the operation of 802.22.3?

Wendong: No the operation would not be effected as the 802.22.3 can use other connections to access the internet.

Bruce: So connection to the 802.22 base stations is one of the possible connection options.

Wendong: Yes

Wendong then presented the 802.22.3 5 criteria.

Bruce: Earlier you stated that the modified 802.22 base station and 802.22.3 are independent, but in the 5C 802.22.3 you have many references to the amendment base standard. A logic question if they are truly independent why are there any references between the two projects.

Wendong: The major references to the base standard is to allow the basic techniques that has been studied and developed in the base standard, to ensure the compatibility.

Bruce: The reasons for these questions is it would seem easier to say that there was dependence between the two.

Gerard: What we are trying to define is a family of standards under 802.22. The base standard will define the regional WRAN, base stations reaching 25 to 30 km. 802.22.3 will then fill in with smaller range, portable, bridging devices. If the base standard is there then the 802.22.3 will be able to look for it, but if it was not there then 802.22.3 would connect to other media such as cable.

Wen Gao: Scalable of the network topology, you want to consider not just point to multi point but also mesh networks such as 802.11s.

Wendong: Yes

Wendong finished his presentation.

Due to the limited time left Mark Cummings was unable to give the 802.19 presentation in document IEEE802.19-09/089 but offered to answer any questions offline, by phone or email.

Chairman: Closed meeting (18:04)