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| Minutes of IEEE 802.1 OmniRAN TG Meeting in Bangkok, TH |
| **Date: September 14th - 17th, 2015** |
| **Author(s):** |
| **Name** | **Affiliation** | **Address** | **Phone** | **email** |
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## Abstract

Minutes of the IEEE 802.1 OmniRAN TG meeting at the IEEE 802 Wireless Interim Meeting in Bangkok on September 14-17, 2015

# Monday, September 14th, 2015

Chair: Max Riegel

Recording secretary: Walter Pienciak

## Call to order

* Meeting called to order by Max Riegel at 16:08 hrs.
* Meeting was guided by the slides uploaded and maintained by the chair:
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0040-00-00TG-sept-2014-f2f-meeting-slides.pptx>

## Minutes

* Walter Pienciak volunteered to take notes.

## Attendance

* IEEE 802.1 meeting IMAT page was used for recording of attendance
* IEEE 802.1 provides reciprocal attendance credits to members of IEEE 802.11.
* Sessions were arranged that they are fully aligned to IEEE 802.11 session times avoiding the issues with IMAT registration of the past meetings.
* Roll call

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| **Name** | **Affiliation** |
| Max Riegel | Nokia Networks |
| Walter Pienciak | IEEE SA |
| Juan Carlos Zuniga | Interdigital  |
| Yonggang Fang | ZTETX |
| Hyeong Ho Lee | ETRI |
| Chenchen Liu | Huawei |
| James Lepp | Blackberry |
| Jeorge S. Hurtarte | Teradyne |
| Katsuo Yunoki | KDDI R&D Labs |
| Stephen Pain | BRCM |
| Bill Carney | Sony |
| Praveen Due | Qualcomm |
| Mark Hamilton | Ruckus Wireless |
| Wang Hao | Fujitsu |

## IEEE WG Guidelines

* The chair presented the mandatory IEEE SA guideline slides and asked for anybody willing to make an IPR announcement.
* No IPR declaration was raised.

## Agenda approval

* Agenda as proposed in the chair’s meeting slides:
* Review of minutes
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0039-00-00TG-july-2015-f2f-meeting-minutes.docx>
* Reports
* Discussions on ‘802.11 as a component’
* Status of Privacy ECSG
* Creation of new revision of cf text
* P802.1CF contributions
* Functional decomposition and design
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0042-00-CF00-an-setup-over-unlicensed-band.docx>
* SDN abstraction
* P802.1CF editor’s draft
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0035-01-CF00-cf-text-review.pdf>
* Comments resolution
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0045-00-CF00-review-comments-on-doc-0035-01.xlsx>
* Component model within scope of 802.1CF
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0043-00-CF00-wlan-as-a-component.pptx>
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0044-00-CF00-radio-interface-component.pptx>
* Status report to IEEE 802 WGs
* AOB
* Agenda approved without comments.
* Group agreed to hold session on component model on Wed, PM1. Chair announced the special session on IEEE 802.11 WG mailing list to invite participation from 802.11 usually not following OmniRAN matters.

## Review of minutes

* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0039-00-00TG-july-2015-f2f-meeting-minutes.docx>
* No comments received.

## Reports

* Discussions on ‘802.11 as a component’
* Max reporting about activities after July F2F going into Sept F2F
* Multiple presentations prepared for this meeting.
* Status of Privacy ECSG
* Juan Carlos reported about successful completion and plans into Nov F2F
* PAR was adopted by 802.1 security TG and project will be realized as IEEE 802E
* First session P802E session will take place on Tue EVE at the November Dallas plenary meeting.
* Creation of new revision of cf text
* New revision was created after Jul F2F and made publicly available on mentor by removing official elements and adding submission cover page.

## P802.1CF contributions

### Functional decomposition and design

* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0042-00-CF00-an-setup-over-unlicensed-band.docx>
* Yonggang introduced new contribution
* Revision invited addressing the issues mentioned during discussion.

### SDN abstraction

* No contribution available

Recess at 18:10

# Tuesday, September 15th, 2015

Reconvene: 16:05

* Call for IPR: No response

## P802.1CF editor’s draft

* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0035-01-CF00-cf-text-review.pdf>
* Review and comments resolution
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0045-00-CF00-review-comments-on-doc-0035-01.xlsx>
* Results captured in revision of Excel sheet
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0045-01-CF00-review-comments-on-doc-0035-01.xlsx>
* Max will deliver a proposal for the table at the end of the NRM listing the identifiers for the entities defined within the NRM. The table will also contain references to related IEEE 802 specifications.
* Max will deliver proposal for restructuring of section 7.2.5 showing the differentiation between mandatory and optional elements. Informative notes are provided for the optional elements to explain the usage of the information.
* When input is available for review in next teleconference on Sept 29th, a new text revision will be created after the teleconference for contributions to the November F2F meeting.

Recess: 17:40

# Wednesday, September 16th, 2015

Reconvene: 13:30

* Call for IPR: No response

## Component model within scope of 802.1CF

* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0043-01-CF00-wlan-as-a-component.pptx>
* Introduces a new perspective on discussion that essentially a WLAN RAN may be required to successfully introduce 802.11 to 5G
* Request to amend slide 11 that access router/core network is required for Internet connectivity.
* Adding a slide would be appreciated to show how OmniRAN NRM fits to presented network figures.
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0044-01-CF00-radio-interface-component.pptx>
* Showed that OmniRAN approach provides both a model for a 802.11 radio component as well as a 802.11 Radio Access Network.
* No consensus on how to treat terminals in the component discussions. The presentation introduced the radio interface in the terminal as a second kind of radio component. However when considering complete access networks, terminals may not considered as independent components. It was mentioned that Wi-Fi terminals may never only be used within operator networks.
* Various discussions on reference points and network reference model; missing perspective on IP layer was brought up, but presenter explained that IP layer is out of scope for P802.1CF but model may be easily extended by IP layer signaling.
* Strong opposition on statement on slide 23 that only LMI would have to be refined by 802.11. Other interfaces may need refinements as well.

Recess: 15:30

# Thursday, September 16th, 2015

Reconvene: 16:05

* Call for IPR: No response

## Status report to IEEE 802 WGs

### Discussion about P802.1CF project plan:

* Contributions for ‘Functional decomposition and description’ chapters still in development.
* Creation of initial Draft P802.1CF document after Jan 2016 meeting
* Assumed timeline within current scope: initial TG ballot March 2016, LB Nov 2016, SB Jul 2017
* Revised plan shows a delay of about 4 months compared to previous plans.

### Discussion about conclusions out of special session on ‘802.11 as a component’

* Agreement that there is an opportunity to define a new set of interfaces to address the 5G requirements for inclusion of IEEE 802.11
* This work would result in an 802.11 Radio Access Network (RAN).
* OmniRAN P802.1CF could potentially provide the network architecture (Stage 2) for this RAN.

### Approval of document

* Result of discussion of status report to IEEE 802 WGs captured in:
* <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0046-00-00TG-sept-2015-status-report-to-802wgs.pptx>
* Chair asked for any further comments or edits to the document.
* Nobody spoke up. Content as captured in document referenced above agreed by group
* Chair uploaded the document to mentor and created a copy based on the 802.11 template for inclusion into the 802.11 closing plenary slides
* Juan Carlos volunteered to present the slides to the 802.11 closing plenary.

### Document also contains plans for next confcall and next F2F meeting

* Looking forward to next F2F meeting in Dallas, November 9-12, 2015: Envisioned topics:
* Comment resolution on P802.1CF draft text
* Further contributions on open sections
* Continue discussions on 802.11 as a component
* Radio Interface or Radio Access Network?
* Conference call:
* September 29th, 10:00 AM ET
* Dial-in details on OmniRAN TG Wiki page on mentor <https://mentor.ieee.org/omniran/bp/StartPage>
* Review contributions invited in Sept meeting to conclude on next draft text revision

## AOB

* Walter asked for review by technical contributors for editorial changes to the text. Text contributions may be tagged by the name of the contributor to allow the editor to ask for review by initial contributors at later and final stages of document.

Meeting adjourned by chair at 17:39