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| Minutes of IEEE 802.1 OmniRAN TG Meeting in Atlanta, GA |
| **Date: Mar 31st, 2016** |
| **Author(s):** |
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## Abstract

Minutes of the IEEE 802.1 OmniRAN TG meeting at the IEEE 802 Plenary Meeting in Vancouver, BC on March 13-16, 2017

In addition to its regular business for the week, OmniRAN TG scheduled a special session on Wednesday, March 15th, 1600-1800 for discussions on the 5G SC Action A.

* The special session was guided through a separate slideset
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0032-00-5gaa-mar-15-5gaa-meeting-slides.pptx>
* Minutes of the special session are uploaded to mentor
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0035-00-5gaa-mar-15th-f2f-meeting-minutes-for-5g-action-a.docx>

# Monday, March 13th, 2017

Chair: Max Riegel

Recording secretary: Walter Pienciak

## Call to order

* Meeting called to order by Max Riegel at 16:00 hrs.
* Meeting was guided by the slides uploaded and maintained by the chair:
<https://mentor.ieee.org/omniran/dcn/17/omniran-17-0020-00-00TG-mar-2017-f2f-meeting-slides.pptx>

## Minutes

* Walter Pienciak volunteered to take notes.

## Attendance

* IEEE 802.1 meeting IMAT page was used for recording of attendance
* Participants

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| **Name** | **Affiliation** |
| Max Riegel | Nokia Bell Labs |
| Walter Pienciak | IEEE |
| Wang Hao | Fujitsu |
| Yunsong Yang | Huawei |
| Roger Marks | EthAirNet Assoc. |
| Patrick Slaats | IEEE SA |
| Su Yi | Fujitsu |
| Hyeong-Ho Lee | ETRI |
| Glenn Parsons | Ericsson |
| Hajime Koto | NICT |
| Tomoki Ohsawa | BRID |
| Juan Carlos Zuniga | Sigfox |
| Nicholas Orlando | IEEE SA |
| Satoko Itaya | NICT |

## IEEE WG Guidelines

* The chair presented the mandatory IEEE SA guideline slides and asked for anybody willing to make an IPR announcement.
* No IPR declarations were brought up.

## Agenda approval

* Agenda as proposed in the chair’s meeting slides was presented and discussed.
* Review of minutes
* Reports
* Industry Connections activity
* Comment resolution on P802.1CF-D0.4
* Revised and new P802.1CF contributions
* Plan for 802.1CF-D0.5 draft
* Conference calls until Jul F2F
* Status report to IEEE 802 WGs
* AOB
* Agenda approved without further comments.

## Schedule of the topics during the week

* Chair discussed availabilities of the contributors and preferences to discuss the various topics. Hao was fine to have the discussion on the data model for FDM on Tuesday afternoon.
* Group agreed to arrange the discussion topics according to the following plan over the week:
* ***Monday***
* Review of minutes
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0015-00-00TG-jan-2017-f2f-meeting-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0018-00-00TG-feb-7th-confcall-minutes.docx>
* Reports
* Industry Connections activity
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0029-00-5gaa-icaid-introduction.pptx>
* Comment resolution on P802.1CF-D0.4
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-00-CF00-802-1cf-d0-4-collected-comments.xls>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0021-00-CF00-deployment-scenario-wi-fi-router.docx>
* ***Tuesday***
* Comment resolution on P802.1CF-D0.4
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-01-CF00-802-1cf-d0-4-collected-comments.xls>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0021-01-CF00-deployment-scenario-wi-fi-router.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0022-01-CF00-deployment-scenario-enterprise-network.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0023-00-CF00-deployment-scenario-public-hotspot.docx>
* Revised and new P802.1CF contributions
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0028-00-CF00-data-model-for-fdm.pptx>
* ***Wednesday***
* Comment resolution on P802.1CF-D0.4
* Revised and new P802.1CF contributions
* ***Thursday***
* Plan for 802.1CF-D0.5 draft
* Conference calls until Jul F2F
* Status report to IEEE 802 WGs
* AOB

## Review of minutes

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0015-00-00TG-jan-2017-f2f-meeting-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0018-00-00TG-feb-7th-confcall-minutes.docx>
* Chair quickly introduced the minutes and asked for comments.
* No comments were raised to either of the minutes.

## Reports

* Aside from the ICAID discussion (next item), nothing was reported.

## Industry Connections activity

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0029-00-5gaa-icaid-introduction.pptx>
* Chair briefly introduced the status of the discussion, then reported about the presentation and discussion of the topic in the opening 802.1 plenary in the morning and about potentially open issues in the ICAID.
* Proposed changes to the document were introduced by the chair.
* It was confirmed that proposed deliverables include meeting records, as well as a recommendation report with a March 2018 projected delivery date.
* Review of steps this week to support the activity. The special session on Wed PM2 will resolve the open issues and step into considerations regards the execution of the IC activities.
* Discussion of getting IEEE-SA staff leads in industry-vertical areas together with Max to help them understand the goal and provide information and/or suitable opportunities. Walter asked about the possibility to arrange a conference call with the IEEE SA staff liaison contacts to further evaluate the possibilities to stretch out into the vertical applications domain. The chair responded that such meeting could be arranged in the following week when the directions and the ICAID are finally settled.

## Comment resolution on P802.1CF-D0.4

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-00-CF00-802-1cf-d0-4-collected-comments.xls>
* The chair brought up the spreadsheet with the collected comments containing roughly 40 comments from Brian, Hao and Max
* It was agreed to postpone the resolution of Brian’s comments to a time when Brian can attend the OmniRAN meeting.
* Comments were discussed and resolved in the order provided in the spreadsheet going through the specification from the beginning.
* Resolution results were captured in the spread sheet.
* Discussion with several hints for enhancements arose on the contribution about the proposed Wi-Fi router deployment scenario. Roger recommended adding some explanatory text on the purpose of the reference points to the LAN and WAN side.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0021-00-CF00-deployment-scenario-wi-fi-router.docx>
* Max included proposed text edits into a revision of the document and offered to introduce further amendments in a revision until the following day.
* At the end of the session the chair uploaded the spreadsheet with the resolution results to mentor.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-01-CF00-802-1cf-d0-4-collected-comments.xls>

Recessed by chair at 17:50

# Tuesday, March 14th, 2017

Reconvened at 16:00

* Reminder call for IPR: Nothing brought up.

## Comment resolution on P802.1CF-D0.4

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-01-CF00-802-1cf-d0-4-collected-comments.xls>
* Comment resolution continued based on the result of the work on the last day
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0021-01-CF00-deployment-scenario-wi-fi-router.docx>
* Revision of Wi-Fi router contribution was reviewed. Max showed modification to text and figures, according to the discussion in the previous session. Instead of the circuit diagram figure proposed in the last session, Max recommended using a different figure, as direct connectivity from radio interface into switch does not exist in real devices and leaving the figure in place may be misleading and may cause further comments. The proposed figure was shown and the group agreed to adopt the other figure with connectivity from radio interfaces into the micro controller. Max offered to create another revision with review of text to make sure that text is fully aligned with the new diagram.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0022-01-CF00-deployment-scenario-enterprise-network.docx>
* Document was reviewed and considered ready for inclusion into the specification. Some discussion came up on how to better visualize the mapping of the enterprise network scenario to the NRM. Walter provided the information that IEEE SA accepts color in figures when the color makes it more understandable. Max mentioned that he will think about usage of color to better visualize the mapping. Working with different shades of grey is not really providing a clear distinction.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0023-00-CF00-deployment-scenario-public-hotspot.docx>
* Document was brought up and reviewed. There was general consensus to include the contribution into the next revision of the draft. Scenario is similar to enterprise network, and figure with mapping to NRM may benefit the same way from making use of colors. Hao brought up whether operational roles should be made more prominent visually. It was found that representation does not cause conflict as operation of AN, SS and AR by the same entity has already been mentioned as a valid option.

## Revised and new P802.1CF contributions

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0028-00-CF00-data-model-for-fdm.pptx>
* Hao presented his slides showing the initial steps and results for visualization of the attributes of the FDM section through UML. It follows a bottom up approach, as a top picture is currently missing, and the top picture needs to be generated on top of the data models of each of the functions in chapter 7.
* The approach to visualize through UML got support by the group and was deemed appropriate for the .1CF specification. Hao pointed out that similar approach was taken for 802.1X-2010, and Mick Seaman created very condensed single page data models. It was agreed that OmniRAN tries to follow the graphical layout and approaches that were applied for 802.1X. Hao pointed out that 802.1 uses only a subset of the capabilities of UML. No participant was able to explain the use of only a subset of UML for data modeling in 802.1.

Recessed by chair at 18:05

# Wednesday, March 15th, 2017

Reconvened at 13:30

* Reminder call for IPR: Nothing brought up.

## Comment resolution on P802.1CF-D0.4

* With the commenter, Brian Weis in the meeting, the group addressed the comments submitted by him. All the comments were discussed, and remedies were jointly defined.
* It was agreed to add an introductory section at the beginning of Chapter 6 to explain the meaning of IEEE 802 access network, to better guide the reader through the document, as well as to rename the chapter title to ‘Network Reference Model for Access Network’.
* All the comments could be resolved in conformance with the submitters. There are still a few open comments due to pending contributions, which will be addressed in the upcoming conference call.
* The result of the comment resolution is captured in
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-02-CF00-802-1cf-d0-4-collected-comments.xls>

## Revised and new P802.1CF contributions

* No further contributions available

Recessed by chair at 15:30

# Thursday, March 16th, 2017

Reconvened at 10:35

* Reminder call for IPR: Nothing brought up.

## Plan for 802.1CF-D0.5 draft

* The group discussed the options for going forward with P802.1CF. Instead of rushing into WG ballot, creation of D0.5 will be kept open for inclusion of further information on Time Sensitive Networking (amendment to 7.5) and Data Modeling (new chapter 8.4)
* D0.5 could become initial version for WG ballot.
* D0.5 to be created sometime after May interim, or for July plenary.

## Conference calls until Jul F2F

* Group discussed the necessary meeting time for closing all the remaining comments until the May 2017 interim meeting. It was agreed to schedule 2 conference calls.
* April 11th, 2017, 09:30AM ET, 90mins
* May 2nd, 2017, 09:30AM ET, 90mins
* Further calls after the May interim to be announced on the 802.1 mailing list.
* The chair will ask the 802.1 closing plenary for approval of the conference calls.

## Status report to IEEE 802 WGs

* The chair created in front of the group a draft and presented the content. The status report to 802 WGs was agreed on by the group and uploaded:
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0034-00-00TG-mar-2017-report-to-802-wgs.pptx>

## AOB

* Hao Wang provided overview about interesting projects in 802.15, which may have close relation with discussions going on in OmniRAN TG:
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0033-00-CF00-report-on-802-15-tgs.pptx>
* Group did not see need for immediate actions but will review in the next F2F meeting.
* With the main business of the OmniRAN TG concluded for the week, the remainder of the time was taken up with discussion of the group's Industry Connections planning.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0032-00-5gaa-mar-15-5gaa-meeting-slides.pptx>
* Chair brought up the last four slides of 5GAA meeting slides, providing first thoughts about the process for stretching out into verticals.
* Potential approaches, possibilities and various options were discussed, without making any conclusions yet.

Meeting adjourned by chair at 12:25.