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| Minutes of IEEE 802.1 OmniRAN TG November 6th Meeting in Orlando, US |
| **Date: November 20th, 2017** |
| **Author(s):** |
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## Abstract

Minutes of the IEEE 802.1 OmniRAN TG meeting at the IEEE 802.1 Plenary Meeting in Orlando, US on November 6-10, 2017

Since the last F2F meeting held in St John’s, OmniRAN TG held three conference calls. The minutes and notes can be found on the mentor. They have been reviewed and accepted by the TG.

* Confcall on 26th, September
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0077-00-00TG-sep-26th-confcall-minutes.docx>
* Confcall on 10th, October
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0083-00-00TG-oct-10th-confcall-minutes.docx>
* Confcall on 31st, September
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0086-00-00TG-oct-31st-confcall-notes.docx>

# Monday, November 6th, 2017

Chair: Max Riegel

Recording secretary: Hao Wang

## 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-17-0084-00-00TG-nov-2017-f2f-meeting-slides.pptx>

## Minutes

* Hao Wang 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 |
| Hao Wang | Fujitsu |
| Hajime Koto | NICT |
| Tomoki Ohsawa | NICT |
| Satoko Itaya | NICT |
| Nader Zein | NEC |
| Kenichi Maruhashi | NEC |
| Yonggang Fang | ZTE TX |
| Paul Nikolich | IEEE 802 |
| Walter Pienciak | IEEE |
| Radhakrishna Canchi | Kyocera |
| Antonio de la Oliva | UC3M |
| Tetenya Yuda | Kyocera |
| Hiroshi Ohue | Panasonic |
| Akio Hasegawa | ATR |
| Harry Bims | Bims Labs |
| Patrick Slaats | IEEE |

## 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
* Potential input to 802.1 Industry Connections
* Motions to 802.1 mid-week plenary
* Information model for Access network and User service
* Text proposal for adoption of TSN in Chap 7.5 & 7.6
* Plan for going WG ballot w/ 802.1CF-D0.7 draft
* Conference calls until Mar F2F
* Motions to 802.1 closing plenary
* 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.
* 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-17-0070-00-00TG-september-2017-f2f-meeting-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0077-00-00TG-sep-26th-confcall-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0083-00-00TG-oct-10th-confcall-minutes.docx>
* Reports
* Potential input to 802.1 Industry Connection
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0087-01-00ic-examples-of-radio-environment-in-the-factories.pdf>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0088-00-00ic-wired-wireless-convergence-for-factory-iot.pdf>
* Motions to 802.1 mid-week plenary
* ***Tuesday***
* Information model for Access network and User service
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0081-03-CF00-user-service-information-model.pptx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0079-01-CF00-chap-8-1-information-model.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0082-02-CF00-information-model-structure.pptx>
* ***Wednesday***
* Information model for Access network and User service
* [https://mentor.ieee.org/omniran/dcn/17/omniran-17-0082-03-CF00-information-model-structure.pptx](https://mentor.ieee.org/omniran/dcn/17/omniran-17-0081-04-CF00-user-service-information-model.pptx)
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0081-04-CF00-user-service-information-model.pptx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0079-02-CF00-chap-8-1-information-model.docx>
* ***Thursday***
* Text proposal for adoption of TSN in Chap 7.5 & 7.6
* https://mentor.ieee.org/omniran/dcn/17/omniran-17-0089-00-CF00-tsn-adoption-to-802-1cf.pptx
* https://mentor.ieee.org/omniran/dcn/17/omniran-17-0068-00-CF00-chap-7-5-7-6-tsn-amendment.docx
* Plan for going WG ballot w/ 802.1CF-D0.7 draft
* Conference calls until Mar F2F
* Motions to 802.1 closing plenary
* Status report to IEEE 802 WGs
* AOB

## Review of minutes

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0070-00-00TG-september-2017-f2f-meeting-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0077-00-00TG-sep-26th-confcall-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0083-00-00TG-oct-10th-confcall-minutes.docx>
* Chair quickly introduced the minutes and asked for comments.
* No comments were raised.

## Reports

* Oct 31st technical ad-hoc
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0086-00-00TG-oct-31st-confcall-notes.docx>
* Chair explained that Oct 31st telecon became technical ad-hoc due to low participation and mis-schedule
* Requirements for sub-group minutes
* <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0199-00-00EC-november-2017-rule-meeting.pdf>
* Chair showed refined requirements for meeting minutes in IEEE 802
* The group agreed that the minutes of OmniRAN TG are fully in line with the requirements with the next meeting announcement added to the end.
* New 802.1 plenary meetings arrangement
* <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0170-00-00EC-802-1-opening-report.pdf>
* Chair explained about new plenary meeting arrangement. For trialing now until March 2018.
* Chair pointed out that OmniRAN would meet at the IEEE 802.1 interim in Geneva in January 2018.

## Potential input to 802.1 Industry Connections

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0087-01-00ic-examples-of-radio-environment-in-the-factories.pdf>
* Slides reviewed and a number of hints provided for enhancements to the slides.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0088-00-00ic-wired-wireless-convergence-for-factory-iot.pdf>
* Discussion about motivation and clarity of presentation. Several hints provided for modifications to enhance clarity of message of slides.

## Motions to 802.1 mid-week plenary

* Nothing to be brought for decision.

Recessed by chair at 17:56

# Tuesday, November 7th, 2017

Reconvened at 16:00

* Reminder-call for IPR: Nothing brought up.

## Information model for Access network and User service

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0081-03-CF00-user-service-information-model.pptx>
* Max presented his work on the service information model and walked through all the 6 components.
* A number of comments were made for review and adoption including the addition of Beacon and ProbeRequest, terminal triggered 802.1X authentication procedure, and a number of naming and description issues. Max offered to adopt the comments to a new revision also following the recommendation to show all components starting from the root.
* Max preferred a flat model structure to show the role of each network entity in a single box, rather not introducing additional hierarchy for the time being.
* Max explained the terms chosen for the name of class denote the relationship result from the corresponding control function, which can be created, modified and deleted.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0079-01-CF00-chap-8-1-information-model.docx>
* Max shortly presented the outline of the section 8.1.1 aimed for representation of the service information model. Max offered to upload a version exposing the figures for the following session.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0082-02-CF00-information-model-structure.pptx>
* Hao provided a short introduction into his approach for the configuration and management model. He adopted the principal approach from the 802.1X information model and showed a first draft for the network setup procedures.
* Max recommended to focus on the configuration and the management aspects, which are described in chapter 7.1 and 7.8 respectively. Hao offered to make an amendment to show how the FDM functions could be modelled in such a structure.

Recessed by chair at 18:14

# Wednesday, November 8th, 2017

Reconvened at 16:05

* Reminder-call for IPR: Nothing brought up.

## Information model for Access network and User service

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0082-03-CF00-information-model-structure.pptx>
* Hao walked through the slides and explained the basic principles used for the creation of the 802.1X information model, and how the same principles could be applied for the model for network initiation.
* Of the two different models shown, the first model more closely following the NRM was considered the more appropriate. Hao was asked to create for complete models for both initialization as well as FDM for inclusion into the specification.
* Hao also pointed out two editorial issues in D0.6.2.2 that needs to be fixed in the next version,
* Figure 28 is a duplicate of Figure 27. The correct figure can be found in <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0048-03-CF00-chapter-7-1-text-revision.docx>
* Whole chapter 7.8.3.3 is out of date, and the latest revision is in <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0076-00-CF00-chap-7-8-3-3-amendment.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0081-04-CF00-user-service-information-model.pptx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0079-02-CF00-chap-8-1-information-model.docx>
* Max shortly showed the revisions made based on the discussions of the previous day.
* The group agreed to insert the material provided through the .docx document into the specification.

Recessed by chair at 17:55

# Thursday, November 9th, 2017

Reconvened at 10:30

* Reminder-call for IPR: Nothing brought up.

## Plan for going WG ballot w/ 802.1CF-D0.7 draft

* WG ballot would be open on Dec 18th, and closed on Jan 19th

## Conference calls until Jan F2F

* Confcall to conclude on P802.1CF-D1.0 on Dec 12th
* Confcall to agree on final additions for D0.7 on Dec 5th
* Confcall to progress contributions and editorial clean-up on Nov 28th
* Further conference calls as agreed in January interim for February 2018

## Motions to 802.1 closing plenary

* Drafted and agreed in TG. Motions are listed in the meeting slides,
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0084-04-00TG-nov-2017-f2f-meeting-slides.pptx>

## Text proposal for adoption of TSN in Chap 7.5 & 7.6

* [https://mentor.ieee.org/omniran/dcn/17/omniran-17-0089-00-CF00-tsn-adoption-to-802-1cf.pptx](https://mentor.ieee.org/omniran/dcn/17/omniran-17-0068-00-CF00-chap-7-5-7-6-tsn-amendment.docx)
* Max presented the slides to remember the conclusions of the TSN discussions at the St. John’s meeting and bringing up the question, which figures to add to the specification.
* Call-outs will be used to depict the location of the TSN related control functions in the NRM to avoid misperception that TSN would require further refinement of the NRM.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0068-00-CF00-chap-7-5-7-6-tsn-amendment.docx>
* Max walked through the Word document showing the planned places for adding the content on TSN. Section 7.5 will contain a comprehensive explanation of the TSN components, and chapter 7.6 will be amended to show the mapping of the TSN control to the functions and elements of the NRM.
* Further content is necessary to sufficiently cover TSN in the P802.1CF specification. Max announced that he will carefully review necessary changes to the existing content, but surprisingly less need for modifications came up than expected.

## Status report to IEEE 802 WGs

* The chair drafted a short summary of the report of the meeting and the group jointly introduced refinements for final conclusion and acceptance. The agreed document is uploaded under <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0090-00-00TG-nov-2017-report-to-ieee802-wgs.pptx>

## AOB

* Nothing brought up.

## Next meeting

* Conference call on November 28th, 0930AM ET

Meeting adjourned by chair at 14:30.