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| Minutes of IEEE 802.1 OmniRAN TG September 5th Meeting in St John’s, Canada |
| **Date: September 14th, 2017** |
| **Author(s):** |
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## Abstract

Minutes of the IEEE 802.1 OmniRAN TG meeting at the IEEE 802.1 Interim Meeting in St John’s, Canada on September 5-7, 2017

Since the last F2F meeting held in Berlin, OmniRAN TG held one conference call. The minutes can be found on the mentor. They have been reviewed and accepted by the TG.

* Confcall on 25th, July
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0065-00-00TG-july-25th-confcall-minutes.docx>

# Tuesday, September 5th, 2017

Chair: Max Riegel

Recording secretary: Hao Wang

## Call to order

* Meeting called to order by Max Riegel at 13:30 hrs.
* Meeting was guided by the slides uploaded and maintained by the chair:
<https://mentor.ieee.org/omniran/dcn/17/omniran-17-0066-00-00TG-sep-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 |
| Fumihide Kojima | NICT |
| Glenn Parsons | Ericsson |
| 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 |

## 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
* Comment resolution on P802.1CF-D0.6
* New content for P802.1CF
* Chapter 7.9 Information Model
* Revision of 7.5 and 7.6 to cover TSN
* Other amendments
* Plan for 802.1CF-D0.7 draft
* IC NEND contributions review
* Conference calls until Nov F2F
* Status report to IEEE 802 WGs
* AOB
* Agenda approved without further comments.

## Schedule of the topics during the week

* Chair informed there will be 802.1CF editor sessions held from 0900 to 1230 everyday through Tuesday to Thursday, giving more time to review and amend 802.1CF draft 0.6.
* 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:
* ***Tuesday***
* Review of minutes
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0065-00-00TG-july-25th-confcall-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0061-00-00TG-july-2017-f2f-meeting-minutes.docx>
* Reports
* Revision of 7.5 and 7.6 to cover TSN
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0067-01-CF00-tsn-in-the-scope-of-p802-1cf.pptx>
* ***Wednesday***
* Comment resolution on P802.1CF-D0.6
* <http://www.ieee802.org/1/files/private/cf-drafts/d0/802-1cf-d0-6.pdf>
* Chapter 7.9 Information Model
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0063-01-CF00-information-model-for-an-setup.pptx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0064-01-CF00-information-model-structure.pptx>
* ***Thursday***
* Revision of 7.5 and 7.6 to cover TSN
* Pending: Chapter 7.5 & 7.6 text amendment
* Plan for 802.1CF-D0.7 draft
* Conference calls until Nov F2F
* Status report to IEEE 802 WGs
* AOB

## Review of minutes

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0065-00-00TG-july-25th-confcall-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0061-00-00TG-july-2017-f2f-meeting-minutes.docx>
* Chair quickly introduced the minutes and asked for comments.
* No comments were raised.
* Walter appreciated that in the minutes not only plain decisions are kept, but also the essential flow of the discussions.

## Reports

* The chair explains current situation regarding the progress of new draft D0.6. The group agrees to make it as a sound base for inclusion of further amendments rather than going for another task group ballot.
* Max introduced the progress of the development of new 802.1 website and show the page for OmniRAN TG and 802.1CF, which can be found under [http://www.ieee802.org/1/staging](http://www.ieee802.org/1/staging/). The new website will go live until next F2F meeting in September.

## Potential input to 802.1 Industry Connections

* The group discussed further input to the next ICA meeting to be held on Nov. F2F.

## Revision of 7.5 and 7.6 to cover TSN

* [https://](https://mentor.ieee.org/omniran/dcn/17/omniran-17-0067-01-CF00-tsn-in-the-scope-of-p802-1cf.pptx)[mentor.ieee.org/omniran/dcn/17/omniran-17-0067-00-CF00-tsn-in-the-scope-of-p802-1cf.pptx](https://mentor.ieee.org/omniran/dcn/17/omniran-17-0067-00-CF00-tsn-in-the-scope-of-p802-1cf.pptx)
* Max presented his slides in preparation of the joint TSN-OmniRAN meeting on Wednesday, 13:30.
* Max explained why the TSN features should be included in 802.1CF, and pointed out the following places where current texts may need enhancement,
* Chapter 7.5 datapath, generic introduction of TSN and in particular the role of NRM entities for TSN functions
* Chapter 7.6, include the enhanced functions for introducing TSN in authorization , QoS and policy control.
* When comparing the configuration and control models, Hao pointed out that even the fully distributed configuration model could be represented through the NRM. As OmniRAN is mainly about centralized access network control, it was agreed to focus on the centralized models in the joint meeting on Wednesday.
* The QoS and policy control architecture of OmniRAN provides additional functionality compared to the two centralized TSN configuration models. The additional capabilities of the OmniRAN architecture should be brought up in the joint meeting to retrieve feedback about the potential acceptance by TSN.
* Max lined out the compact slideset he would create for the joint meeting explaining hardly anything about TSN architecture but providing much more background on P802.1CF NRM capabilities and options.

Recessed by chair at 16:00

Chair proposed to recess earlier due to the early start of social event.

# Wednesday, September 6th, 2017

Reconvened at 13:30

* Reminder-call for IPR: Nothing brought up.

## Joint TSN-OmniRAN meeting

* A revision of the slides of TSN within P802.1CF was presented and discussed.
* https://mentor.ieee.org/omniran/dcn/17/omniran-17-0067-02-CF00-tsn-in-the-scope-of-p802-1cf.pptx
* The presentation is well received by the group, consensus is made on the point that TSN architecture and OmniRAN NRM fits well.
* No obstacles to inclusion of TSN into P802.1CF were raised. Even the adoption of the P802.1CF QoS policy model seems to be appropriate as the additional capabilities can be realized according to P802.1Qcc.
* Rodney Cummings, editor of 802.1Qcc, agrees on the proposed mapping of two basic TSN architectures to the OmniRAN NRM, and backs up the idea of inclusion of TSN features into 802.1CF in such a way to address the stream based protocol.
* When being asked about the next step of 802.1CF, Max explained the plan to go for a working group ballot with the next revision containing the TSN functionality and information model, and called for comprehensive review through members of TSN TG.

## Comments’ resolution on P802.1CF-D0.6

* <http://www.ieee802.org/1/files/private/cf-drafts/d0/802-1cf-d0-6.pdf>
* No comments submitted for this meeting.
* However a comprehensive editorial review was carried through in editors meetings.
* The following additions have been identified:
* Max: Definition of unlicensed and authorized spectrum at the begin of chapter 7.1
* Max: Amend text at the beginning of NDS section to explain figure 30
* Max: Introduce the role of NMS in the chapter 7.5 Data path
* Max: Provide a short introduction to the restructured chapter 8
* Max: Amend chapter 4.2 with an explanation of the UML notation used in the document. Inheritance will be added to the capabilities
* Hao: Review and revise chapter 7.8.3.3 to remove overlap with section 7.2 including fig 57

## 802.1CF information model

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0063-01-CF00-information-model-for-an-setup.pptx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0064-01-CF00-information-model-structure.pptx>
* Discussion led to agreement to try-out the structure of Max for creating more detailed information models for each of the subsections of Chapter 7.
* Agreement that some documentation of UML notification syntax would be necessary to make drawings really meaningful.
* Besides the information model, there is no agreement reached yet to address the services and logical relationships between entities for each control function.
* Max created amendment with two additional slides, one on UML notation syntax, and another on high-level User service information model.
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0064-02-CF00-information-model-structure.pptx>

Recessed by chair at 18:00

# Thursday, September 7th, 2017

Reconvened at 14:30

## Revision of 7.5 and 7.6 to cover TSN

* Chapter 7.5 & 7.6 text amendment will be provided for discussion in the next confcall

## Plan for 802.1CF-D0.7 draft

* No intermediate draft will be created as technical content did not change.
* D0.7 will be released for WG ballot after November meeting with additional content as discussed in this meeting.

## Conference calls until Sep F2F

* The group decided to have three conference calls on Tue, September 26th, October 10th, and October 31st 2017, 09:30-11:00AM ET for editorial review of D0.6 and further discussions on Information Modeling.

## 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-17-0069-00-00TG-sep-2017-report-to-ieee802-wgs.pptx>

## AOB

* Nothing brought up.

Meeting adjourned by chair at 15:00.