|  |
| --- |
| Minutes of IEEE 802.1 OmniRAN TG Meeting in Warsaw, Poland |
| **Date: September 26th , 2016** |
| **Author(s):** |
| **Name** | **Affiliation** | **Address** | **Phone** | **email** |
| Walter Pienciak | IEEE |  | +1 303 527 0934 | w.pienciak@ieee.org |

## Abstract

Minutes of the IEEE 802.1 OmniRAN TG interim meeting at the IEEE 802 Wireless Meeting in Warsaw, Poland on September 13-15, 2016

# Tuesday, September 13th, 2016

Chair: Max Riegel

Recording secretary: Walter Pienciak

## Call to order

* Meeting called to order by Max Riegel at 16:05 hrs.
* Meeting was guided by the slides uploaded and maintained by the chair:
<https://mentor.ieee.org/omniran/dcn/16/omniran-16-0057-00-00TG-sept-2016-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

|  |  |
| --- | --- |
| **Name** | **Affiliation** |
| Max Riegel | Nokia Bell Labs |
| Walter Pienciak | IEEE |
| Wang Hao | Fujitsu |
| Yonggang Fang | ZTE TX |
| Liang Jin | Spirent Comm. |
| Subir Das | ACS |
| Krzysztof Grochla | IITiS |
| Xingxin Zhang | Huawei |
| Hakan Persson | Ericsson |
| Hyeong-Ho Lee | ETRI |

## 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 was presented and discussed.
* It was proposed to invite the representatives of 3GPP for a dedicated discussion of the 3GPP LWA approach and its relationship to the OmniRAN activities
* It was clarified that instead comment resolution, further steps will be discussed regarding 802.1CF editor’s draft. Open comments will be forwarded to the May interim meeting for resolution.
* The following agenda resulted from the agenda bashing:
* Review of minutes
* Reports
* Contributions to Industry Connections activity (5G SC Action A)
* Result of TG ballot of P802.1CF-D0.2
* Comments’ database
* Input from York F2F Ad-hoc
* Comments’ resolution on P802.1CF-D0.2
* New P802.1CF contributions
* Plan for creation of P802.1CF-D0.3 draft
* Completion of comments’ resolution
* Plan and timeline for creation of D0.3
* Project planning
* External review of P802.1CF-D0.3
* Project planning
* Status report to IEEE 802 WGs
* AOB
* Agenda approved without further comments.
* In addition to its business for the week, OmniRAN TG scheduled a special session on Wednesday, September 14th, 1600-1800 on initiation of discussions on the 5G SC Action A. The special session was guided by its own slidedeck <https://mentor.ieee.org/omniran/dcn/16/omniran-16-0061-00-5gaa-sep-14-special-session-on-5g-sc-action-a.pptx>
	+ Short minutes of the special session are contained within this document.

## Schedule of the topics during the week

* Group agreed to arrange the discussion topics according to the following plan over the week:

***Tuesday***

* Review of minutes
* Reports
* Contributions to Industry Connections activity (5G SC Action A)
* Result of TG ballot of P802.1CF-D0.2
* Comments’ database
* Input from York F2F Ad-hoc

 ***Wednesday***

* Comments’ resolution on P802.1CF-D0.2
* Special session on 5G SC Action A

 ***Thursday***

* Comments’ resolution on P802.1CF-D0.2
* New P802.1CF contributions
* Plan for creation of P802.1CF-D0.3 draft
	+ Completion of comments’ resolution
	+ Plan and timeline for creation of D0.3
* Project planning
	+ External review of P802.1CF-D0.3
* Status report to IEEE 802 WGs
* AOB

## Review of minutes

* <https://mentor.ieee.org/omniran/dcn/16/omniran-16-0055-00-00TG-july-2016-f2f-minutes.docx>
* Chair shortly presented minutes created and uploaded by Wang Hao
* Group appreciated the comprehensive recording of the discussions leading to the creation of draft D0.2 and the initial TG ballot.
* No other comments raised on the minutes.

## Reports

* Initial TG ballot on P802.1CF-D0.2
* Chair reported about the outcome of the initial TG ballot on P802.1CF-D0.2 by showing slide 22 of the updated meeting slides (<https://mentor.ieee.org/omniran/dcn/16/omniran-16-0057-01-00TG-sept-2016-f2f-meeting-slides.pptx>)
* Responses can be on web archive of ballot list: <http://www.ieee802.org/1/private/email2/thrd1.html>
* Somewhat weak response (20 responses total, 4 Approve, 3 Disapprove, 13 Abstain)
* Total of 58 comments (33 editorial, 25 technical)
* Comments collected by the chair in the spreadsheet: <https://mentor.ieee.org/omniran/dcn/16/omniran-16-0059-00-00TG-p802-1cf-d0-2-collected-comments.xls>
* Sharing of P802.1CF with IETF
* Chair reported that there was a discussion in preparation of the IETF/IEEE802 leadership team meeting on how to share the P802.1CF draft with IETF. Various options were discussed with the conclusion to introduce the specification to the IETF intarea WG potentially with a presentation at the next IETF meeting. IETF WG members can get access to the draft specification by sending a request to the IEEE 802.1 chair Glenn Parsons.
* York Ad-hoc results
* Chair reported about the discussions and outcome of the ad-hoc meeting at the York interim.
* Comments’ discussion w/ Norm Finn
* Discussion about meaning and usage of ‘end station’ and ‘end system’
* Agreement to emphasize in 6.1.7 that access router is ‘end station’ of access network, as it does not forward frames on Layer 2
* Explain in specification that ‘end system’ is where the applications reside
* Discussion about Ethernet convergence for 802.15.3d
* Agreement reached that proposing to tunnel Ethernet frames over the ptp 802.15.3 link would be the best approach
* Slides for presentation to 802.15.3d updated after discussion
* Discussion about the intentions for the OmniRAN special session in Warsaw on ‘Industry Connections activity’
* Agreed to initiate a brainstorming session to create and collect ideas on the potential new operators domains, on the potential offerings of IEEE 802 to these operators, and on the necessary actions to establish such new operator domains by IEEE 802
* WebEX session will be set-up and announced on the 5G SC list to enable remote attendance
* Presentation to 802.15.3d on Ethernet convergence
* Chair reported about his presentation to 802.15.3d (100G) about transport of Ethernet frames over the 802.15.3.
* <https://mentor.ieee.org/802.15/dcn/16/15-16-0640-00-003d-ethernet-convergence.pptx>
* In the recent 802.15.3 revision major changes have been introduced to enable 802.15.3 for Ethernet transport, mainly the move to 48bit MAC addresses and the usage of EPD framing for the packet convergence layer. Further clarifications regarding transport of Ethernet frames over 802.15.3 are still open.
* Nevertheless with the modifications in the 802.3.15REV-2016, the technology would fit into the scope of P802.1CF.

## Contributions to Industry Connections activity (5G SC Action A)

* The chair reported that a special session has been prepared for Wed, Sep 14, 1600-1800 to progress the plans for the action. The session is mainly aimed for brainstorming to progress thinking and ideas for the industry connections activity.
* The aim for the session has been discussed at the York ad-hoc with the 802.1 chairs Glenn Parson and John Messanger (see report about York results above).
* A WebEX session will be provided for remote attendance

## Result of TG ballot of P802.1CF-D0.2

* Information about the outcome of the TG initial ballot on P802.1CF is given in the reports above.
* Comments’ database available under: <https://mentor.ieee.org/omniran/dcn/16/omniran-16-0059-00-00TG-p802-1cf-d0-2-collected-comments.xls>

## Input from York F2F Ad-hoc

* Discussion in York took place to clarify Norman Finn’s comments. Norm’s main concern was about usage of ‘end station’ vs. ‘end system’.
* Agreement was reached that the current usage of end-station would be fine, when some textual changes would be introduced to emphasize the distinction between end station and end system.

Recessed by chair at 18:05

# Wednesday, September 14th, 2016

Reconvened at 13:40

* Call for IPR: No response

## Comments’ resolution on P802.1CF-D0.2

* The chair guided the discussion of the comments and captured the results in an update to the comments spreadsheet.
* Roughly half of the comments were resolved during the session.

Recessed by chair at 15:30

# Thursday, September 15th, 2016

Reconvened at 10:35

* Call for IPR: No response

## Comments’ resolution on P802.1CF-D0.2

* The remaining comments of the Wednesday comment resolution session were discussed and resolved.
* Result of resolution uploaded under <https://mentor.ieee.org/omniran/dcn/16/omniran-16-0059-01-00TG-p802-1cf-d0-2-collected-comments.xls>
	+ One open comment to be closed in the next conference call.

The meeting was recessed for lunch 12:30 – 13:30.

## New P802.1CF contributions

* None.

## Plan for creation of P802.1CF-D0.3 draft

* Completion of comments’ resolution
* To be done in conference call on Sept 27th
* Plan and timeline for creation of D0.3
* 15 days recirculation closing Nov 3rd
* Announcement of recirculation on Oct 17th
* Decision on input for D0.3 on Sept 27th
* Max will provide introductory section to chapter 7 (overview of functional description)
* More would be needed for 6.9 Deployment Scenarios, but time to create content is too short.

## Project planning

* External review of P802.1CF-D0.3
* Plan to present P802.1CF in intarea meeting at next IETF (Nov 14-17, Seoul, Korea)
* Who will present?
* TTC Japan; Introduction done by Fujitsu
* Request for access to specification
* Other groups?
* For further discussion

## Status report to IEEE 802 WGs

* Proposal presented and agreed
* <https://mentor.ieee.org/omniran/dcn/16/omniran-16-0062-00-00TG-sep-2016-report-to-802-wgs.pptx>
* A version on the 802.11 template was created by the chair and provided to 802.11 for inclusion in their reporting slidedeck.

## AOB

* None

Meeting adjourned by chair at 15:50.

# Special session on 5G SC Action A

# Wednesday, September 14th, 2016

Chair: Max Riegel

Minutes: Walter Pienciak

## Call to order

* Chair called meeting to order at 16:10.
* Chair used guiding slideset for introduction and entertaining the discussions: <https://mentor.ieee.org/omniran/dcn/16/omniran-16-0061-00-5gaa-sep-14-special-session-on-5g-sc-action-a.pptx>

## Attendance

* IEEE 802.1 meeting IMAT page was used for recording of attendance
* Roughly 20 people in the room, a few people followed the discussions remotely.

## IEEE WG Guidelines

* The chair presented the mandatory IEEE SA guideline for pre-PAR activities.

## Agenda approval

* Agenda for the special session as proposed in the guiding slides was approved without any comments.

## Introduction

* The chair provided an introduction by going through the slides and providing a recap of the 5G SC conclusions as well as the OmniRAN special session in San Diego.

## Discussions

* Discussions in the group mainly arose around the procedures and benefits of Industry Connections, about the goals and objectives for IEEE 802 and the best way going forward.
* Many ideas and views were expressed, however there was no conclusion in any of the directions.
* Uncertainty about the final targets for the group was evident. Some disagreement existed about whether the correct approach was to a) find a major customer and start the requirements gathering process there or to b) define a primary set within the group itself.
* To reach progress in leveraging an Industry Connections activity it was agreed that running some kind of hypothetical use case might provide both, better insight into the usage of the tool Industry Connections, as well as establishing a common view on directions and objectives.

## Conclusion

* Chair offered to hold another special session in the upcoming San Antonio plenary meeting with a rough (hypothetical) proposal to address the MSO (Cable operator) environment.

Special session was adjourned by chair at 17:50 to allow participants to prepare for the bus departure for the social starting at 18:00.