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| Minutes of IEEE 802.1 OmniRAN TG May 15th Meeting in Stuttgart, Germany |
| **Date: May 27nd, 2017** |
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## Abstract

Minutes of the IEEE 802.1 OmniRAN TG meeting at the IEEE 802.1 Interim Meeting in Stuttgart, Germany on March 15-18, 2017

Since the last F2F meeting held in Vancouver, OmniRAN TG hold two conference calls. Minutes of these calls have been reviewed and accepted by the TG and are included for formal approval.

* Confcall on 11th, Apr
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0038-00-00TG-apr-11th-confcall-minutes.docx>
* Confcall on 2nd, May
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0042-00-00TG-may-2nd-confcall-minutes.docx>

# Monday, May 15th, 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-17-0043-00-00TG-may-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 |
| Wang Hao | Fujitsu |
| Roger Marks | EthAirNet Assoc. |
| Glenn Parsons | Ericsson |
| Hajime Koto | NICT |
| Tomoki Ohsawa | BRID |
| Tero Mustala | Nokia |
| Nader Zein | NEC |
| Scott Mansfield | Ericsson |

## 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
* Participation in 802.1 Industry Connections activity
* Comments’ 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. Chair also invited the NICT representatives to re-visit the presentation discussed in the March joint meeting.
* 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-17-0042-00-00TG-may-2nd-confcall-minutes.docx>
* Reports
* Comments’ resolution on P802.1CF-D0.4
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-03-CF00-802-1cf-d0-4-collected-comments.xls>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0027-02-CF00-chapt-8-3-virtualized-network-instantiation.docx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0041-00-CF00-mapping-of-qos-related-parameters.pptx>
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0006-01-CF00-mapping-accounting-and-monitoring-to-ieee-802-technologies.docx>
* https://mentor.ieee.org/omniran/dcn/17/omniran-17-0026-01-CF00-chapt-7-6-8-mapping-to-ieee802-technologies.docx
* ***Tuesday***
* Participation in 802.1 Industry Connections on ‘IEEE 802 network enhancements for the next decade’
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0044-00-5gaa-potential-contribution-to-ica.pptx>
* <http://www.ieee802.org/1/files/public/docs2017/new-maruhashi-general-industrial-usage-part1-0317-v00.pdf>
* <http://www.ieee802.org/1/files/public/docs2017/new-itaya-general-industrial-usage-part2-0317-v00.pdf>
* ***Wednesday***
* New content for P802.1CF
* https://mentor.ieee.org/omniran/dcn/17/omniran-17-0045-00-CF00-model-for-accounting-and-monitoring.pptx
* 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-17-0042-00-00TG-may-2nd-confcall-minutes.docx>
* Chair quickly introduced the minutes and asked for comments.
* No comments were raised to the minutes.
* Max asked Glenn about how to submit the confcall minutes of OmniRAN TG to 802.1 WG for approval. Glenn responses that confcall minutes are managed by TG and could be referred in the F2F meeting minutes as URL links for formal approval.

## Reports

* Max shortly introduced his plan to contribute to the upcoming 802.1 industry connection activity. His idea of introducing the concept of 802 network slicing and comparing to 3GPP is in favor of this group.
* Roger reports the mis-understanding of the ICA in AANI. Folks were expecting the first meeting held in OmniRAN which is wrong. In the July F2F meeting, Glenn as chair of 802.1 will organize a session as part of the tutorial to kick off the ICA on ‘IEEE 802 network enhancements for the next decade’.

## Comments’ resolution on P802.1CF-D0.4

* All open comments resolved. Complete comment resolution captured in
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0030-04-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
* The chair notice that an introduction texts will be included in clause 6.2.1 explaining what the ‘access network’ means.
* Discussion arose on the comparison between teardown a real network and teardown a virtualized network. Agreement was reached:
* After the creation of the virtualized network, the configuration and operation of the network should be fully controlled by the access network operator, out of the scope of the infrastructure provider, except for the emergency case.
* Isolate the operation roles from the infrastructure provider offers better flexibility and security. The configuration of the AN can be stored by the AN operator so that it can re-establish the virtualized network with any other infrastructure provider.
* Not to show further details about the last use case, e.g orchestrator rejects the change, because there is not necessary to exhaust all the scenarios occurred in the real deployment.

Take 802.11 network as an example, virtualized network could have certain limitations on configuration comparing to the real network.

* A revised document was created during the session,
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0027-03-CF00-chapt-8-3-virtualized-network-instantiation.docx>
* Hao shortly introduced his findings from 802 specs regarding the QoS related parameters. His suggestions on revision of the mapping table got supported by the group. A revised document was created during the session,
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0026-01-CF00-chapt-7-6-8-mapping-to-ieee802-technologies.docx>

Recessed by chair at 17:50

# Tuesday, May 16th, 2017

Reconvened at 13:30

* Reminder-call for IPR: Nothing brought up.

## Industry Connections activity

* The session is guided by the following slides,
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0044-00-5gaa-potential-contribution-to-ica.pptx>
* Chair reviews the progress of 802.1 industry connection activity so far and foresees the first meeting held in the July F2F plenary meeting.
* Proposal to waive meeting fees for participants only attending the ICA kick-off to enable more open participation.
* Glenn introduced his idea about the topic of the kick-off ICA event, and 802 in automotive industry is now considered as a candidate.
* Max explains his idea of comparing IEEE 802 capability to emerging discussions for ‘5G’ focusing on network slicing.
* Nader notifies the latest discussions in 3gpp SA about the end-to-end architecture framework on how to develop business out of a network slice.
* Roger raises the question about the definition of ‘service’ in the framework, and Nader explains that it was something NGMN borrowed it from MEF.
* Comments on the slides are summarized as follows,
* Slide 14 is an outdated figure when NGMN tried to figure out what the slice is about.
* Relevant contents from MEF and ITU SG-15 is missing on Slide 17.
* Core part is on Slide 20 & 21, and showing the figures of NRM slices may not be adequate to help the readers to understand the concept and require more study on the spec. It would be better to show some examples on how utilize the slicing in the reality deployment explaining how the terminal connects to multiple slices.
* Services are not clear on this figure, which makes it difficult to address the requirement form 3GPP.

## Contributions related with the 802.1 ICA

* Koto-san from NICT shortly review the contributions discussed in the last F2F meeting.
* http://www.ieee802.org/1/files/public/docs2017/new-maruhashi-general-industrial-usage-part1-0317-v00.pdf
* <http://www.ieee802.org/1/files/public/docs2017/new-itaya-general-industrial-usage-part2-0317-v00.pdf>
* Discussions arose from the basic terminology to the problem statement, the group is trying to figure out what the problem is truly about.
* Roger questions the effectiveness of a standard in helping to solve the claimed problem in the factory usage and demands an example of such solution in single (homogeneous) network.
* Glenn brought up the previous discussions in response to the liaison from WFA about bridging 802.11ah devices and 802.15.4 devices, and mentioned the possibility to re-open the discussion based on such new requirements.

# Wednesday, May 17th, 2017

Reconvened at 14:00

## New contents for P802.1CF

* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0045-00-CF00-model-for-accounting-and-monitoring.pptx>
* Hao went through his contributions on the data model structures for generic OmniRAN NRM and control functions.
* He explains in detail about how such idea is coming out of the study on 802.1X and 802.1Xck specs.
* The group is in favor of his idea in principle and will have more discussions in the next F2F meeting working out a skeleton structure ready to be included in D0.6.
* The group agrees to put access network data models into new section 7.9 as a summary to the control functions and just prior to the description of network softwarization.

## Plan for 802.1CF-D0.5 draft

* The group agreed to do another recirculation with D0.5 to establish sound base for adding new content on.
* D0.5 to be created sometime after May interim, and goes for task ballot in early June.

## Conference calls until Jul F2F

* Group discussed the necessary meeting time to review the accepted contributions to be included in D0.5 and discuss the initial comment resolutions retrieved from the ballot. It was agreed to schedule 2 conference calls.
* May 31th, 09:30am ET (Editorial review of D0.5 to finalize for recirculation)
* Jun 27th , 09:30am ET (Start comment resolution on D0.5)

## 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 uploaded and agreed by the group:
* <https://mentor.ieee.org/omniran/dcn/17/omniran-17-0046-00-00TG-may-2017-report-to-ieee-802-wgs.pptx>

## AOB

* 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 contributions.
* Chair proposes to schedule a dedicated meeting slot to review the potential contributions to the ICA and invited NICT to re-present in OmniRAN in the next F2F meeting.

Meeting adjourned by chair at 18:05.