|  |
| --- |
| Minutes of IEEE 802.1 OmniRAN TG May 21st – 23th Meeting in Pittsburgh, US |
| **Date: May 30th, 2018** |
| **Author(s):** |
| **Name** | **Affiliation** | **Address** | **Phone** | **email** |
| Hao Wang | Fujitsu |  | +86 010 59691521 | wangh@cn.fujitsu.com |

## Abstract

Minutes of the IEEE 802.1 OmniRAN TG meeting at the IEEE 802.1 Interim Meeting in Pittsburgh, US on May 21-23, 2018

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

* Confcall on 20th, March
* https://mentor.ieee.org/omniran/dcn/18/omniran-18-0032-00-00TG-mar-20th-confcall-minutes.docx
* Confcall on 28th, March
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0036-00-00TG-mar-28th-1cq-confcall-minutes.docx>
* Confcall on 3rd, April
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0039-00-00TG-apr-3rd-confcall-minutes.docx>
* Confcall on 13th, April
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0041-00-00TG-apr-13th-confcall-minutes.docx>

# Monday, March 21st, 2018

Chair: Max Riegel

Recording secretary: Hao Wang

## Call to order

* Meeting called to order by Max Riegel at 09:00 hrs.
* Chair set up the webex meeting to allow remote participation for P802.1CQ project.
<https://nokiameetings.webex.com/nokiameetings/j.php?MTID=mfecb09822e5bee107eb9ed64b1a3272b>
* Meeting was guided by the slides uploaded and maintained by the chair:
<https://mentor.ieee.org/omniran/dcn/18/omniran-18-0042-01-00TG-may-2018-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

|  |  |
| --- | --- |
| **Name** | **Affiliation** |
| Max Riegel | Nokia Bell Labs |
| Hao Wang | Fujitsu |
| Tomoki Ohsawa | NICT |
| Akio Hasegawa | ATR |
| Nader Zein | NEC |
| Roger Marks | EthAirNet Assoc. |
| Antonio de la Oliva | UC3M/Interdigital-remote |
| Tomek Mrugalski | ISC-remote |
| Bernie Volz | Cisco-remote |
| Walter Pienciak | Adv. Cog. Arch.-remote |
| Paul Nikolich | Self |
| Hiroshi Ohue | Panasonic |

## 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
* P802.1CQ contributions (Mo, 09:00 – 12:30)
* Nendica related contributions review
* Result of P802.1CF WG ballot
* Comment resolution on P802.1CF-D2.0
* Plan for 802.1CF-D2.1 draft
* Conference calls until July 2018 F2F
* Status report to IEEE 802 WGs
* Next meeting
* 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 AM***
* P802.1CQ contributions
* ***Monday PM***
* Review of minutes
* Reports
* Nendica related contributions review
* Result of P802.1CF WG ballot
* Comment resolution on P802.1CF-D2.0
* ***Tuesday***
* Comment resolution on P802.1CF-D2.0
* ***Wednesday***
* Comment resolution on P802.1CF-D2.0
* Plan for 802.1CF-D2.1 draft
* Conference calls until July 2018 F2F
* Status report to IEEE 802 WGs
* Next meeting
* AOB

## P802.1CQ contributions

* Link-Layer Addresses Assignment Mechanism for DHCPv6
* Bernie and Tomek presented the slides,
	+ <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0044-00-CQ00-link-layer-addresses-assignment-mechanism-for-dhcpv6.pptx>
* A major concern on following the hypervisor model for allocating MAC address to IoT devices is that link layer address is required to access to the medium, and establish link layer communications.
* It is easy for the VMs to have a management entity, while it is not for the individual IoT devices.
* Security concerns were brought up on how to identify the trustworthy participant; otherwise it would be serious threat to the system.
* Discussions lead to a conclusion that both groups should work closely on the topic.
* Self Address Assignment Mechanism
* Antonio presented the update on self address assignment
	+ https://mentor.ieee.org/omniran/dcn/18/omniran-18-0034-01-CQ00-proposal-for-ieee-802-1cq-self-assignment-part.pptx
* It was pointed out that on wireless, there is no way to do multicast before association, but it can be done on wired medium.
* It was asked how to identify which address is assigned by server and which is self-assigned.
* It was concerned on how to deal with broadcast collision on the spectrum. And it was added by a participant that it should be taken seriously, because similar comments about the collisions in the spectrum are raised for 802.11aq.
* It was pointed out a possibility that is with two-step protocol, one step for a pool assignment for AP and then assigned to individual devices.
* Antonio collected the questions and comments and upload revision with short summary of issues after the session.
	+ https://mentor.ieee.org/omniran/dcn/18/omniran-18-0034-02-CQ00-proposal-for-ieee-802-1cq-self-assignment-part.pptx
* Chair will arrange 802.1CQ topics to the OmniRAN confcalls and make an announcement on the mail list.
* Roger mentioned that he will bring the contribution previously presented in DCB to OmniRAN for discussion.

## Review of minutes

* Review the minutes of the 1CQ confcall;
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0036-00-00TG-mar-28th-1cq-confcall-minutes.docx>
* Review the minutes of 1CF confcall;
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0032-00-00TG-mar-20th-confcall-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0039-00-00TG-apr-3rd-confcall-minutes.docx>
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0041-00-00TG-apr-13th-confcall-minutes.docx>
* Review the minutes of the March F2F:
* [https://mentor.ieee.org/omniran/dcn/18/omniran-18-0028-00-00TG-mar-2018-f2f-meeting-minutes.docx](https://mentor.ieee.org/omniran/dcn/18/omniran-18-0041-00-00TG-apr-13th-confcall-minutes.docx)
* No comments were raised.

## Reports

* P802.1CQ transferred into OmniRAN. 802.1CQ documents will be also stored in OmniRAN filespace on mentor.

## Nendica contributions

* Nader introduced the report update, and technical details is separately presented by the individual contributors;
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0028-00-00TG-mar-2018-f2f-meeting-minutes.docx>
* Comments are raised on the latency requirement, saying for the industry automation the requirement could reach down to 100us on the wired medium.
* It was pointed out that 802.1D is an outdated standard, and could be replaced with 802.1Q.
* Lively discussions about the potential benefits of coordination in unlicensed spectrum. Demand for further information on potential coordinator functions was raised.

## Result of P802.1CF/D2.0 WG ballot

* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0045-00-CF00-d2-0-wg-ballot-disposition-table.xls>
* WG ballot passed with 71% return rate and 95% approval rate.
* 105 comments to be resolved.

## Comment resolution on P802.1CF-D2.0

* Processed as captured in revisions to the wg-ballot-disposition-table.
* Java database will be set up for official documentation aligned to the CID numbering scheme of Excel table.
* Results of resolution as progressed on Monday:
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0045-01-CF00-d2-0-wg-ballot-disposition-table.xls>

Recessed by chair at 18:00

# Tuesday, May 22nd, 2018

Reconvened at 10:00

* Reminder-call for IPR: Nothing brought up.
* Webex meeting was set up for comments resolution

## Comment resolution on P802.1CF-D2.0

* Processed as captured in further revisions to the wg-ballot-disposition-table.
* The group discussed the concept of virtual network and virtualized network to address Hao’s comments. Along the discussions, scope of virtualized network became more clear.
* The role of CIS in a virtualized scenario is to allow external access to the orchestrator, it is a service entity regardless the implementation details.
* CID89: Backhaul definition as finally agreed: The portion of the access network between node of attachments and the access router.
* CID73: resolution proposal as accepted:
* Rephrase text in lines 579-582 to: On the datapath indicated by R1 and R3, the NRM covers all Physical and Data Link layer functions providing an integrated model for backhaul connectivity combined with user-specific connectivity functions as facilitated through the IEEE 802.1 bridging technologies.
* Add footnote: In the telecommunication domain there is often differentiation between user plane functions and transport plane functions; The IEEE 802 access network reference model integrates both planes into a common model aligned to the layered networking capabilities of IEEE 802.1Q.
* Results of resolution as progressed on Tuesday:
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0045-02-CF00-d2-0-wg-ballot-disposition-table.xlsx>

Recessed by chair at 18:00

# Wednesday, May 23rd, 2018

Reconvened at 13:00

* Reminder-call for IPR: Nothing brought up.
* Webex meeting was set up for remote participation

##  Plan for 802.1CF-D2.1 draft

* Hao and Max providing figures through shared DropBox folder until June 5th
* Conference calls on June 5th and 12th to complete editorial work
* Chair will inform John about desire to go sponsor ballot after July F2F
* Pre-announcement to EC
* Establishment of sponsor ballot pool and MEC

## Conference calls until Jul 2018 F2F

* 1hr Call on June 5th on conclusion of input for D2.1
* 1hr Call on June 12th on final editorial review of D2.1

## Status report to IEEE 802 WGs

* Status report drafted by chair and reviewed by group. Agreed report uploaded to mentor
* <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0046-00-00TG-may-2018-report-to-802-wgs.pptx>

## Next meeting

* Conference call on June 5th , 09:30 AM ET

## AOB

* Chair thanked Walter for remotely attending the meeting!

Meeting adjourned by chair at 15:17.