IEEE 802.1 OmniRAN

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| Minutes of 802.1 OmniRAN TG Meeting in San Diego, CA, USA  |
| Date: July 14-15, 2014 |
| Author(s): |
| Name | Affiliation | Address | Phone | email |
| Juan Carlos Zuniga | InterDigital | 1000 Sherbrooke W10th FloorMontreal, QC, Canada | +1 (514) 904 6300 | j.c.zuniga@ieee.org |

Abstract

Minutes of the 802.1 OmniRAN TG face to face meeting in San Diego, CA, USA, on 14th to 15th of July, 2014.

**Monday, July 14th, 2014**

Chair: Max Riegel

Recording secretary: Juan Carlos Zuniga

**Call to order**

* Meeting called to order on Monday July 14, 2014 by Max Riegel at 14:05 hrs (PST).

**Attendence**

* Attendence credits were recorded by registering to the IEEE 802.1 meeting IMAT page.
* List of participants:

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| --- | --- |
| **Name** | **Affiliation** |
| Max Riegel | NSN |
| Juan Carlos Zuniga | InterDigital |
| Jouni Korhonen  | Broadcom |
| Behcet Sarikaya | Huawei |
| Jim Welch | IneoQuest |
| Yonggang Fang | ZTE |
| Ilan Yerushalmi | Marvell |
| Paul Bottorf | HP |
| Glenn Parson | Ericsson |
| Ludwig Winkel | Siemens |
| Lu Huang | China Mobile |
| Roger Marks | EthAirNet/ETRI |
| Ching-Tarng Hsieh | ITRI |

**IEEE WG Guidelines**

* The chair read the IEEE guidelines asking for IPR declarations
	+ no IPR declaration was brought up.

**Appointment of secretary**

* Juan Carlos Zuniga volunteered to take notes.

**Agenda**

* Agenda as proposed in the chair’s meeting slides:
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0048-01-00TG-july-2014-f2f-meeting-slides.pptx>
		- Approval of minutes
		- Reports
		- P802.1CF contributions
			* ToC
			* Network reference model
			* Functional design and decomposition
			* SDN Abstraction
		- OmniRAN organizational issues
		- ITU-T Liaison response
		- Location of September 2014 interim meeting
		- Conference calls until Nov 2014 session
		- Status report to IEEE 802 WGs
		- Motions to the 802.1 closing plenary
		- AOB
	+ The proposed agenda was accepted by the group without comments.

**Review of minutes**

* <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0047-00-00TG-july-2nd-meeting-minutes.docx>
* Chair asked for any comments on the minutes as available on mentor
	+ No comments were raised
	+ No objections were raised against approval of minutes.

**Reports**

* Slides prepared for IEEE 802.1 opening plenary
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0053-00-00TG-omniran-july-14-status-and-objectives.pptx>
	+ Available also in 802.1 directory
	<http://www.ieee802.org/1/files/public/docs2014/admin-omniran-status-and-objectives-0714.pdf>
		- No comments were raised in the opening plenary
* Others
	+ Meeting of ITU-T JCA-SDN
		- Report available for presentation in Wireless SDN BoF

**P802.1CF contributions**

* ToC
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0044-00-CF00-toc-refinement-suggestions.pptx>
	+ Group discussion whether *Backbone* or *Backhaul* is the correct terminology. Seems like *Backbone* refers to Core, whereas *Backhaul* refers to interconnecting Access to Core. Hence, *Backhaul* would be more appropriate for the OmniRAN discussions.
	+ However the term ‘*backhaul’* should not mixed up with ‘mobile backhaul’, which is specific to 3GPP networks and therefore out of scope for P802.1CF.
	+ The contribution does not reflect the latest ToC and therefore some of the proposed changes do not apply.
	+ The group agrees that defining the interfaces would lead to the definition of the controller and therefore moving up in the ToC the SDN Abstraction Layer could be more appropriate.

**Meeting recessed at 15:36 hrs.**

**Meeting reconvened at 16:00 hrs.**

**ITU-T Liaison response**

* <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0056-00-00TG-draft-response-to-itu-t-ls114-letter.docx>
	+ The group reviewed the response proposed to ITU-T and proposed some amendments, as captured in:

<https://mentor.ieee.org/omniran/dcn/14/omniran-14-0056-01-00TG-draft-response-to-itu-t-ls114-letter.docx>

* + The liaison response was uploaded to the 802.1 directory for approval by the closing plenary:
		- <http://www.ieee802.org/1/files/public/docs2014/liaison-ieee802response-ITUTSG15-LS114-v1.docx>

**Meeting recessed at 17:30 hrs.**

**Tuesday, July 15th, 2014**

**Meeting reconvened at 9:00 hrs.**

**P802.1CF contributions, cont.**

* Functional design and decomposition
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0055-00-CF00-proposed-text-for-an-setup.docx>
		- The proposed text was discussed and some amendments were proposed to clarify the context and main message. A new revision of the text will be provided.
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0050-00-CF00-mif-problem-in-omniran.docx>
		- The document illustrated the multiple different ways to consider multiple interfaces to the same terminal. The presentation and induced discussion showed that OmniRAN TG does not have yet a common understanding how and what to consider regarding the multiple interfaces with different technologies all based on Ethernet bridging. The introduction of 802.1Qbz/802.11k work on refinement of the bridging over 802.11 was received for information.

**Meeting recessed at 10:10 hrs.**

**Meeting reconvened at 10:30 hrs.**

* Network reference model
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0057-00-CF00-logical-interface-in-ietf-netext.pptx>
		- The group discussed the concepts of the Logical Interface (LI) as defined in IETF. The question of addressing the whole LI funcitionalities compared to the lower ones only, as well as the implications of ID identifiers were the main topics.
		- The group agreed to focus on L2 functionalities and issues to stay in scope.
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0051-00-CF00-omniran-network-reference-model-with-backhaul.pdf>
		- The contribution led to a discussion about the necessary reference points to reflect appropriately the SDN paradigm. While there was not much controversy about the split of the R3 reference point into a reference point R3C for control and R3d for the user plane, the notation of the newly proposed R6 was considered ambiguous. Furthermore, it was mentioned that the control interface R7 may also be used to model a control interface into an AP/BS, as switch-like packet forwarding happens also in the AP/BS.
		- The contributor offered to create a revised version of the presentation to reflect better the common understanding of the group as expressed during the discussions.
	+ <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0052-00-CF00-omniran-network-reference-model-with-heterogeneous-link-aggregation.pdf>
		- The presentations were given and the idea of separating control and data plane functionalities further in all interfaces was proposed. For parallel links the contribution recommends to consider 802.1AX as the higher layer model to aggregate the traffic across the two links.
		- The idea to make use of 802.1AX requirese further investigations regarding applicability in the P802.1CF context.

**Meeting recessed at 12:40 hrs.**

**Meeting reconvened at 13:40 hrs.**

* Functional design and decomposition, cont.
* [https://mentor.ieee.org/omniran/dcn/14/omniran-14-0049-00-CF00-point-to-point-link-establishment.docx](https://mentor.ieee.org/omniran/dcn/14/omniran-14-0050-00-CF00-mif-problem-in-omniran.docx)OmniRAN TG organizational issues
	+ The arrangement of the meetings throughout the week in one consequtive block does not allow for lot of interactions and revisions between the meetings. An arrangement with the meetings spread across the whole week is considered more productive.
	+ The chair will try to avoid one block of meetings arrangements and will ask for meetings on Tuesday afternoon, Wednesday afternoon and Thursday morning in future.
* Location of September 2014 interim meeting
	+ The group agreed that the timing was right to meet with the Wireless groups and therefore collocating with the Wireless groups was proposed. A strawpoll was taken whether the next interim meeting should take part together with the wireless groups in Athens, Greece. The strawpoll resulted in 4 yes/1 no/2 abstain. The chair was asked for bringing up the proposal to the closing plenary for decision to meet in September 2014 together with the wireless groups.
* Conference calls until Nov 2014 session
	+ Teleconference calls were tenatively agreed for September 4th , 10:00 AM EST and October 21st, 10:00AM. The chair was asked to bring the proposal to the closing plenary for approval.
	+ Max Riegel will send out details for the conference call well in advance to the calls.
* Status report to IEEE 802 WGs
	+ The chair created and presented a proposal for the status report to the closing plenary and the other IEEE 802 working groups
	<https://mentor.ieee.org/omniran/dcn/14/omniran-14-0058-00-00TG-jul-2014-status-report-to-802-wgs.pptx>
	+ The groups agreed with the content of the slides. The slides are also available in the 802.1 directory by <http://www.ieee802.org/1/files/public/docs2014/admin-omniran-jul-2014-status-report-to-802-wgs.pdf>
* Motions to the 802.1 closing plenary
	+ The chair presented on slide 15, 16 and 17 of the meeting slides the motions, which will be brought up to the 802.1 closing plenary.
	<https://mentor.ieee.org/omniran/dcn/14/omniran-14-0048-03-00TG-july-2014-f2f-meeting-slides.pptx>
	+ The group agreed with the presented motions.
* AOB
	+ The chair reminded that the Wireless SDN BoF will take place in the same meeting room after the coffee break.

**Meeting adjourned at 15:34 hrs.**