IEEE 802.1 OmniRAN

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| Minutes of 802.1 OmniRAN TG Meeting in Norfolk, VA, USA | | | | |
| Date: May 14-15, 2014 | | | | |
| Author(s): | | | | |
| Name | Affiliation | Address | Phone | email |
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Abstract

Minutes of the 802.1 OmniRAN TG meeting from face to face meeting in Norfolk, VA, USA, from 14th to 15th of May, 2014.

**Wednesday, May 14th, 2014**

Chair: Max Riegel

Recording secretary: Juan Carlos Zuniga

**Call to order**

* Meeting called to order on Wednesday May 14, 2014 by Max Riegel at 14:00 hrs (EST).
* First meeting of 802.1 OmniRAN TG.

**IEEE WG Guidelines**

* The chair read the IEEE guidelines and asked for declaration of Potentially Essential Patents.
  + No IPR issues were brought up.

**Appointment of recording secretary**

* Juan Carlos Zuniga volunteered to take notes.

**Attendence**

* Attendence was recorded by registering to the May 2014 IEEE 802.1 IMAT page.
* A roll call was made to introduce the participants in the meeting:

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| --- | --- |
| **Name** | **Affiliation** |
| Max Riegel | NSN |
| Juan Carlos Zuniga | InterDigital |
| Ludwig Winkel | Siemens |
| Jon Mclendon | Broadcom |
| Steve Gorshe | PMC Sierra |
| Behcet Sarikaya | Huawei |
| Glenn Parsons | Ericsson |
| Paul Bottorff | HP |
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**Agenda**

* Agenda as proposed in the chair’s meeting slides:
  + <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0036-01-00TG-may-2014-f2f-meeting-slides.pptx>
    - Approval of minutes
    - Reports
    - TG Organization
    - Example contributions to the intended specification
    - Outline of the intended specification
    - Organization of the work
      * Alignment within IEEE 802.1
      * Cooperation with the other IEEE 802 WGs at July plenary
    - Conference call until July 2014 session
    - Liaison report to IEEE 802 WGs
    - ITU-T Liaison on SDN
    - AOB
  + After some group’s discussion about the right sequence of topics, the proposed agenda was approved without objections as shown in revision -01- of the meeting slides. On slide 9 of the meeting slides, the assignment of topics to meeting slots was recorded. Initial discussion of the ITU-T liaison was scheduled for Wednesday afternoon to allow for preparation of some draft response text if needed.

**Approval of minutes**

* <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0035-00-00TG-apr-29th-meeting-minutes.docx>
* Chair asked for any comments on the minutes as available on mentor
  + No comments were raised
* Chair asked for approval of the minutes
  + Minutes of April teleconference were approved without objections.

**TG organization**

* 802.1 Membership Rights
  + 802.1 membership rights provided to OmniRAN TG participants, when
    - Attending initial OmniRAN TG meeting in Norfolk, VA
    - Gaining attendence credit for the 802.1 interim meeting in Norfolk, VA
    - Sending email to the 802.1 chair applying for membership rights
  + 802.1 membership rights are not required for active participation in OmniRAN TG
  + Everybody can participate in technical conclusions; straw polls instead of voting to document the agreement in the TG.
* OmniRAN TG wiki
  + <https://mentor.ieee.org/omniran/bp/StartPage>
  + One-stop place for latest status and announcements
  + Announcements will be distributed as well on the [STDS-802-1-L@LISTSERV.IEEE.ORG](mailto:STDS-802-1-L@LISTSERV.IEEE.ORG) mailing list.
* Likely a combination of mentor and 802.1 file space will be used
  + Mentor for contributions to the OmniRAN discussions, 802.1 file space for the agreed material going into 802.1CF
  + Further thinking after introduction into the 802.1 web environment on grouper

**Example contributions to the intended specification**

* **OmniRAN R3 Considerations**
  + Max Riegel presented his slides.
  + <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0038-00-CF00-802-1cf-r3-considerations.pptx>
  + Group discussion
    - Agreement that proposal makes sense and separated control and data path may be more applicable to P802.1CF.
    - Still no firm proposal about naming the different R3 interface parts
    - 802.1 already provides some control/data plane separation
    - Other technologies such as IP and 802.11 do not have a clean separation

**Meeting recessed at 15:16 hrs.**

**Meeting reconvenied at 15:42 hrs**

* **Ethernet Connection Service**
  + Paul Bottorff presented his slides.
  + https://mentor.ieee.org/omniran/dcn/14/omniran-14-0040-00-CF00-ethernet-connection-service.pdf
  + Summary
    - Can use PB switches configured for PBB-TE with a controller to build any number of P-t-P TESIs through the PB network
    - Technique can be extended using Asymmetric VLANs (E-TREE) to increase link security
    - Method can be extended to include all IEE features, like Security, OAM, resiliency, etc
    - It is possible to combine method with SPBM to allow for distributed control of some services in parallel with the central controller
  + Next step: Paul will deliver a textual description of his main ideas

**Liaison with ITU-T SG15**

* Glenn Parsons presented the Liaison Letter from SG15 and explained the work on SDN/Ethernet taking place in the group
* As a response is not urgent, the provided G.80xx references will be reviewed in the next conference call and a response to the liaison letter will be drafted in the July plenary meeting for approval in the IEEE 802.1 closing plenary.

**Meeting recessed at 17:16 hrs.**

**Thursday, March 15th, 2014**

**Call to order**

Meeting reconvenied at 9:25 hrs by Max Riegel.

**Outline of the intended specification**

* **SDN Use Cases and Requirements**
  + Juan Carlos Zuniga presented the text
  + <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0041-00-CF00-sdn-use-cases-and-requirements.docx>
  + Group discussion
  + Max: This text would be needed to introduce the SDN topic in the draft specification
  + Paul/Max: Should not make a difference between control and management, as the differenciation is getting blurred.

**Meeting recessed at 10:45 hrs.**

**Meeting reconvenied at 11:05 hrs.**

* **Backhaul in 802.1CF**
  + Max Riegel presented the slides
  + <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0030-00-0000-backhaul-in-omniran.pptx>
  + Group discussion
  + Agreement that ‘backhaul’ is not a separate specification object howevere a kind of application of the generic solution in P802.1CF. The topic should be addressed by a kind of application note in the specification.
* **ToC Refinements**
  + Max Riegel entertained the discussion by bringing up a couple of slides:
  + <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0039-00-CF00-802-1cf-toc-refinements.pptx>
  + Group discussion led to a new revision of the working ToC of P802.1CF:
  + P802.1CF ToC:
    - Introduction and Scope
    - Abbreviations, Acronyms, Definitions, and Conventions
    - References
    - Identifiers
    - Network Reference Model
      * Overview
      * Reference Points
      * Access Network Control Architecture
        + Multiple deployment scenarios including backhaul
    - Functional Design and Decomposition
      * Dynamic Spectrum Access
      * Network Discovery and Selection
      * Association and Disassociaiton
      * Authentication and Trust Establishment
      * Datapath establishment, relocation and teardown
      * Authorization, QoS and policy control
      * Accounting and monitoring
    - *SDN Abstraction* 
      * *Terminal*
      * *Access Network*
    - Annex:
      * Tenets (Informative)

**Meeting recessed at 12:25 hrs.**

**Meeting reconvenied at 14:00 hrs**

**Organization of the work**

* **Alignment within IEEE 802.1**
  + Mentor to be linked with 802.1 document site
    - Mentor will be the entry point for contributions to the OmniRAN TG discussions
    - Agreed material will be uploaded to the 802.1 file space to build the foundation for the specification work
    - Material on the 802.1 file space will mainly be provided by pdf files, while pptx and docx are the prefered file formats on mentor to allow for reuse of the material by others contributors
  + OmniRAN SG mailinglist to be shut down and the IEEE 802.1 mailing list will be used instead for announcements.
    - By experience from the ECSG there is no need for a dedicated mailing list for technical discussions.
  + Cooperation within IEEE 802.1 will continue in July
    - Particular topics: t.b.d.
* **Cooperation with the other IEEE 802 WGs at July plenary**
  + Continuation of data path discussions in July
  + First draft text on NDS
  + Multiple IEEE 802 interfaces on the same link – what are the issues?
  + Potential meeting/discussion with IEEE 802.15 at July’s plenary to identify relevant interfaces for 802.1CF
* **Other topics for July** 
  + Revision of SDN contribution
  + Update from ONF on W&M WG studies
  + Contributions to other areas mentioned in the ToC
  + Contribution template for text contributions

**Conference call before July 14-18 in San Diego, CA session**

* + Teleconference schedule: July 2nd, 2014, 10:00 AM ET
  + Agenda:
    - ITU-T liaison (review G.80xx specifications)
    - Preparation of July f2f meeting in SD

**Status report to IEEE 802 WGs**

* Report created by Max Riegel and reviewed by the OmniRAN TG to report activities to other 802 WGs
  + <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0042-00-00TG-may-2014-status-report-to-802-wgs.pptx>
  + Content and format of status report accepted by TG without objections.

**AOB**

* Max Riegel consulted with Glenn Parsons about availability of ITU-T specifications referenced in the liaison letter received from SG15
  + Specifications are public and have free access
  + Chair to distribute links to specifications on the mailing list
* Latest version of 802.1CF PAR available at
  + <https://development.standards.ieee.org/get-file/P802.1CF.pdf?t=81644900003>
* Editors in IEEE 802.1 have to create the document in FrameMaker. Usually all figures are re-drawn by the editor to achieve consistency with the IEEE SA style guide.
  + There is no necessity that the Word-Template for text contribution exactly follows IEEE SA style guide as editor has to produce correct formatting in FrameMaker anyhow. Furthermore there is no need to mandate e.g. Visio for creating figures, as Visio import into FrameMaker usually not provides the required result.
  + The 802.1 chair appoints the editor when sufficient material is available to start with the formal editing process.

**Adjournment**

* Meeting adjourned at 16:35 hrs ET