

# IEEE 802 Plenary Meeting

March 2016, Macau

## 802.1 Meeting Minutes, 14-17 March, 2016

### Attendees

<i>Last Name</i>	<i>First Name</i>	<i>Middle Name</i>	<i>Affiliation</i>
Baek	SeoYoung		LG Electronics
Bao	Shenghua		Huawei
Bierschenk	Jens		Robert Bosch GmbH
Boiger	Christian		b-plus GmbH
Chang	Dau-Chyrh		Communication Research Center
Chen	David		NSN
Cheng	Weiyang		Coriant
Cummings	Rodney		National Instruments Corporation
Ellegaard	Lars		Vitesse Semiconductor Corporation
Fang	Yonggang		ZTE TX
farjad	ramin		Aquantia
Farkas	Janos		Ericsson
Finn	Norman		Cisco Systems
Fontanella	Stefania		Robert Bosch GmbH
Garner	Geoffrey		Broadcom Corporation
Godfrey	Tim		Electric Power Research Institute, Inc. (EPRI)
Gray	Eric	W	Ericsson
Gunther	Craig		Harman International Industries Incorporated
Haddock	Stephen		Stephen Haddock Consulting
Heffernan	Patrick		Spirent Communications
Huang	Lu		802
Jeffree	Anthony		Broadcom, HP
Jin	Liang		Spirent Communications
Kehrer	Stephan		Hirschmann Automation and Control
Kiessling	Marcel		Siemens AG
Kim	Se	Mog	University of Myongji
Kim	Soyoung		LG Electronics
Ko	Woo-Suk		LG Electronics
Korhonen	Jouni		Broadcom Corporation
Lee	Hyeong	Ho	Electronics and Telecommunications Research

<b><i>Last Name</i></b>	<b><i>First Name</i></b>	<b><i>Middle Name</i></b>	<b><i>Affiliation</i></b>
			Institute (ETRI)
Lemon	John		Broadcom Limited
Li	Yizhou		Huawei Technologies
Liu	Fulei		ZTE Corporation
Mangin	Christophe		Mitsubishi Electric R&D Centre Europe (MERCE)
Marks	Roger		EthAirNet Associates
Messenger	John		ADVA Optical Networking
Mustala	Tero		Nokia Networks
Nakano	Hiroki		Kyoto University
NSAIF	Saad		University of Myongji
Pannell	Donald	R	Marvell Semiconductor
Parsons	Glenn		Ericsson
Pienciak	Walter		IEEE
Riegel	Maximilian		Nokia Networks
Romascanu	Dan		Avaya
Rouyer	Jessy		Alcatel-Lucent
sah	suprita		Reliance JIO Infocomm
Samii	Soheil		General Motors Company
Sato	Atsushi		Yokogawa Electric Corporation
Specht	Johannes		University of Duisburg-Essen and General Motors Company
Steiner	Wilfried		TTTech Computertechnik AG
Thaler	Patricia		Broadcom Corporation
Thornburg	David		Cisco Systems
Unbehagen	Paul		Avaya
wang	haifei		Huawei Technologies
Wang	Hao		Fujitsu Research & Development Center
Zhong	Qiwen		Huawei Technologies
Zinner	Helge		Continental Automotive Systems AG
Zuniga	Juan	Carlos	InterDigital

## Opening Plenary (Monday, 14 March, 2015)

The Chair (Glenn Parsons) presented the opening agenda slides. See the opening plenary slides at:

<http://www.ieee802.org/1/files/public/minutes/2016-03-opening-plenary-slides.pdf>

General information is here:

<http://www.ieee802.org/1/files/public/minutes/802-1-general-info-v3.pdf>

The Chair reviewed general administrative information, including meeting “decorum” (or rules - including the policy on recording and/or reporting of meetings), general 802.1 information (see link provided above), a reminder that contributions are expected to be uploaded before presentation, how to upload contributions (link available via <http://ieee802.org/1/filenaming.html>), how to report meeting session attendance (<http://imat.ieee.org>), meeting schedule (<http://802world.org/attendee>), hotel and meeting room security, and meeting logistics.

Slide 3 provides specific link information for uploading contributions, meeting schedule and attendance. Slide 5 provides meeting logistics information.

The Chair covered slides (6 – 11) on IEEE-SA recommended policy statements to be pointed out or reviewed at least once a day during meetings this week. These slides include:

- Instructions to WG (and TG) Chairs
- Participants, Patents and Duty to Inform
- Patent Related Links
- Call for Potentially Essential Patents
- Compliance with applicable laws, including anti-trust/competition
- TG Chairs were reminded of the need to review patent policy information daily

The Chair asked if there was anyone who was prepared to make any statement(s) with respect to any potentially essential patents.

There was no response to the call for potentially essential patents.

The Chair further reviewed additional general administrative information, including 802.1 officers, web-site location (<http://www.ieee802.org/1/>), a reminder of the upcoming Chair and Vice Chair elections (slide 13) and 802 Chair and officer elections (slide 14) at this meeting, a reminder of the duties of voting members, eligible voters, etc. (slides 15-20).

The Chair also discussed the current plan to allow for credit for 802.1 meeting attendance based on attendance at 802.11 meetings (for those people who wish to have

this because they attend 802.1 meetings and need this to maintain voting eligibility – see slide 21 for details).

The Chair again reminded all contributors to ensure that they upload presentations prior to presenting them (slide 22 gives the upload link) .

**Join Me** information reminder (slide 23):

- IEEE-SA provided conference tool
- Each IEEE 802 WG has one account (ask Chair for password)
  - <http://join.me/802.1>

Thanks to Janos for providing a newcomer's orientation on Sunday, at 6 PM, including an overview of IEEE 802.1, IEEE 802.1 TSN and IEEE P802.1CM (**TSN for Fronthaul**). The introduction can be found at:

<http://www.ieee802.org/1/files/public/docs2016/cm-farkas-intro-0316-v01.pdf>

The Chair reviewed the schedule for future Interim meetings (slide 25), which included:

- May 23-26, 2016: Budapest, HU – Janos Farkas, Ericsson
  - See slides for details  
<http://www.ieee802.org/1/files/public/docs2016/admin-farkas-Budapest-0316-v01.pdf>
- September 2016: York, UK – John Messenger, ADVA Optical
  - See slides for details  
<http://www.ieee802.org/1/files/public/docs2016/admin-messenger-sep16-york-meeting-0715-v04.pdf>
- January 16-19, 2017: Atlanta, Georgia – 802-sponsored Interim
- Proposals for 2017
  - May – Open
  - September – Open (apparently, the 802.3/802.1 Joint meeting proposal anticipated for March, failed to materialize)

EC Report - See opening plenary slides (26 & 27) for additional information and details.

Public Review

- Starting July 6, 2015 all eligible projects in Sponsor ballot will also have a Public Review period initiated at the same time
- See details on slide 28

E-Mail ballots (see slide 29)

PARs:

- 802.1 PARs (1)
  - 802.1Qcr – Amendment: Asynchronous Traffic Shaping, [PAR](#) and [CSD](#)
- Other WG PARS (7 – PAR and CSD links for Other Working Groups on slide 30)
  - 802.3bs - Amendment: 200 Gb/s Ethernet and 400 Gb/s Ethernet
  - 802.3bt - Amendment: DTE Power via MDI over 4-Pair
  - 802.3cc - Amendment: 25 Gb/s over Single-Mode Fiber

- 802.3cd - Amendment: 50 Gb/s Ethernet, 100 Gb/s Ethernet and 200 Gb/s Ethernet Physical Layers;
- 802.15.12 - Amendment: Upper Layer Interface (ULI)
- 802.15.4v - Amendment: Usage of Regional Sub-GHz bands
- 802.16s - Amendment: Air Interface for Broadband Wireless Access Systems
- Additional details available via <http://grouper.ieee.org/groups/802/PARs.shtml>

Tutorials – None this meeting

802 5G SC – see slide 32

Liaisons and associations:

- Within 802 – see slide 33
- Incoming Liaisons – see slide 34
- CPRI Cooperation – see slide 35
- IETF (IAB & IESG) - IEEE 802 Coordination – see slide 36

The Chair reviewed the current Working Group's work load (Sanity Check slide 36) and the need to promote the work we are doing (slide 38)

Standards Project Awards – see slide 39

Motions for the Closing Plenary (see slide 39)

- Information on routing for next steps
  - Pars to MesCom
  - Drafts to Sponsor Ballot
  - Drafts to RevCom
- Provide supporting material (preferably in motion slides)

Newcomer Session information (see slide 40)

Task Group agendas:

- Security Task Group – Not meeting in Macau
- Michael Johas-Teener discussed the TSN TG agenda (see slide 43)
- Max Reigel provided the status and agenda for the OmniRAN TG (slides 44 & 45)
- John Messenger provided the maintenance agenda for the week (slide 46)
- Pat Thaler presented the DCB TG Agenda for Wednesday (47)

There was no other business to discuss and the opening plenary meeting was adjourned.

# Task Group Minutes

## TSN/Interworking Meeting Minutes

**Monday, 14 March**

**0800-1030**

János Farkas presented Administration and Patent Policy. There was no response to the call for patents.

<http://standards.ieee.org/about/sasb/patcom/materials.html>

János Farkas presented the agenda.

Geoff Garner presented Summary of Major Items Needed for 802.1AS-Rev/D3.0

<http://www.ieee802.org/1/files/public/docs2016/as-garner-summary-of-items-for-802-1AS-Rev-next-draft-0316.pdf>

**1400-1800**

Geoff Garner presented Optional Common P2P meanPathDelayService

<http://www.ieee802.org/1/files/public/docs2016/as-cummings-1588-common-p2p-0316-v1.pdf>

Norman Finn presented P802.1CB D2.2 discussion

<http://www.ieee802.org/1/files/private/cb-drafts/d2/802-1CB-d2-2.pdf>

<http://www.ieee802.org/1/files/private/cb-drafts/d2/802-1CB-d2-2-dis.pdf>

<http://www.ieee802.org/1/files/public/docs2016/cb-nfinn-seamless-issues-0216-v02.pdf>

John Messenger presented 802.15.12 -Amendment: Upper Layer Interface (ULI)

<https://mentor.ieee.org/802.15/dcn/15/15-15-0760-07-0llc-802-15-12-par-draft.pdf>

<https://mentor.ieee.org/802.15/dcn/15/15-15-0768-06-0llc-802-15-12-draft-csd.docx>

**Tuesday, 15 March**

**1000-1800**

János Farkas reviewed Patent Policy. There was no response to the call for patents.

János Farkas presented Incoming Liaisons

[http://www.ieee802.org/1/files/public/docs2016/liaison-SG13-LS139\\_IMT2020-0216.zip](http://www.ieee802.org/1/files/public/docs2016/liaison-SG13-LS139_IMT2020-0216.zip)

<http://www.ieee802.org/1/files/public/docs2016/liaison-SG15-LS332-Sync-0316.docx>

Rodney Cummings presented P802.1Qcc D0.6 Introduction

<http://www.ieee802.org/1/files/private/cc-drafts/d0/802-1Qcc-d0-6.pdf>

Rodney Cummings presented Qcc UNI: Multi-port End Systems

<http://www.ieee802.org/1/files/public/docs2016/cc-cummings-multi-port-end-systems-0316-v1.pdf>

Carlos Aldana and Geoff Garner discussed use of 802.1 Fine Timing Measurement in 802.1AS-Rev.

Marcel Kiessling presented UNI and Services

<http://www.ieee802.org/1/files/public/docs2016/new-goetz-UNI-MSRPv2-0316-v04.pdf>

Marcel Kiessling presented MSRP++

<http://www.ieee802.org/1/files/public/docs2016/new-msrpv2-kiessling-MSRPv2-update-0316-v01.pdf>

Dan Romascanu presented IEEE 802.1Qcj D0.1

<http://www.ieee802.org/1/files/private/cj-drafts/d0/802-1Qcj-d0-1.pdf>

<http://www.ieee802.org/1/files/public/docs2016/cj-romascanu-datamodels-0216-v00.pdf>

## **Wednesday, 16 March**

### **0800-1700**

János Farkas reviewed Patent Policy. There was no response to the call for patents.

Jouni Korhonen presented IEEE P1904.3 Update

<http://www.ieee802.org/1/files/public/docs2016/new-roe-jik-ieee1904dot3intro-0316-v00.pdf>

János Farkas presented P802.1CM D0.2

<http://www.ieee802.org/1/files/public/docs2016/cm-farkas-editor-report-0316-v01.pdf>

<http://www.ieee802.org/1/files/private/cm-drafts/d0/802-1CM-d0-2.pdf>

Tero Mustala and Eero Ryytty presented Comments to 802.1CM Specification Draft

<http://www.ieee802.org/1/files/public/docs2016/CM-Mustala-Comments-to-CM-specification-0316.pdf>

Jouni Korhonen presented 802.1CM and 802.1Qbv Considerations

<http://www.ieee802.org/1/files/public/docs2016/cm-jik-tasconsiderations-0316-v00.pdf>

David Chen presented Qbv Optional for Fronthaul over Ethernet

<http://www.ieee802.org/1/files/public/docs2016/cm-chen-Qbv-Optional-for-Fronthaul-over-Ethernet-0316-v02.pdf>

János Farkas presented P802.1CM D0.2 Profiles A and B

<http://www.ieee802.org/1/files/public/docs2016/cm-farkas-profiles-A-and-B-0316-v01.pdf>

Tony Jeffree presented Progression of P802d

<http://www.ieee802.org/1/files/private/802-d-drafts/d0/802d-d0-1.pdf>

Tony Jeffree presented Progression of P802.1Qci and Qch

<http://www.ieee802.org/1/files/private/ci-drafts/d1/802-1Qci-d1-1.pdf>

<http://www.ieee802.org/1/files/private/ch-drafts/d0/802-1Qch-d0-1.pdf>

Johannes Specht presented P802.1Qcr ATS PAR

<http://www.ieee802.org/1/files/public/docs2016/cr-draft-PAR-0216-v01.pdf>

<http://www.ieee802.org/1/files/public/docs2016/cr-draft-CSD-0216-v01.pdf>

János Farkas presented P802.1AX-2014/Cor1 D0.4

<http://www.ieee802.org/1/files/private/ax-2014-cor-1-drafts/d0/802-1ax-2014-cor-1-d0-4.pdf>

<http://www.ieee802.org/1/files/private/ax-2014-cor-1-drafts/d0/802-1ax-2014-cor-1-d0-4-pdis-v02.pdf>

János Farkas presented Liaison COM 15 – LS 332

<http://www.ieee802.org/1/files/public/docs2016/liaison-response-itu-t-com15-ls332-0316-ver01.pdf>

Rodney Cummings presented AVnu Liaison

<http://www.ieee802.org/1/files/public/docs2016/liaison-AVnu-TSN-features-0316-v00.docx>

Norman Finn presented IEC SC65C WG15 Liaison

<http://www.ieee802.org/1/files/public/docs2016/liaison-finn-to-IEC-SC65C-WG15-0316-v04.pdf>

Don Pannell presented Interoperable Pdelays in IEEE 802.1AS-Rev

<http://www.ieee802.org/1/files/public/docs2016/as-pannell-interoperable-Pdelays-0316-v1.pdf>

## **Thursday, 17 March**

### **1000-1230, TSN**

János Farkas reviewed Patent Policy. There was no response to the call for patents.

Ludwig Winkel presented 802.3br Update

<http://www.ieee802.org/1/files/public/docs2016/br-joint-report-0316-v1.pdf>

János Farkas presented Liaison COM 13 – LS 139 – E

<http://www.ieee802.org/1/files/public/docs2016/liaison-response-itu-t-com13-ls139-0316-ver01.pdf>

János Farkas reviewed TSN motions for the 802.1 closing plenary meeting.

Carlos Aldana and Geoff Garner continued discussion of 802.1 Fine Timing Measurement in 802.1AS-Rev.

Geoff Garner continued 802.1AS-Rev/D2.0 TG Ballot Comment Resolution.



## **OmniRAN Meeting Minutes**

OmniRAN meeting minutes are incorporated into these minutes by reference and are available at:

<https://mentor.ieee.org/omniran/dcn/16/omniran-16-0023-01-00TG-mar-2016-f2f-meeting-minutes.docx>

In addition, an amended meeting presentation is available at:

<https://mentor.ieee.org/omniran/dcn/16/omniran-16-0015-01-00TG-mar-2016-f2f-meeting-slides.pptx>

Current status of OmniRAN activities – including future meeting announcements, past meeting and conference call minutes – is available via a wiki located at:

<https://mentor.ieee.org/omniran/bp/StartPage>

# DCB Meeting Minutes

Tuesday, 15 March

## AM

Pat Thaler (DCB Chair) presented patent policy slides and accompanying material. There was no response to call for patents.

### ***P802.1Qcn/D0.0***

Clause 5 should have sub-clauses for VDP usage for NVO3 nNVE and tNVE rather than trying to add text to one or more existing sub-clauses.

There is no need to modify Clause 40. This project is VDP for NVO3, not EVB for NVO3. May add an annex to explain the comparison between EVB and NVO3 split-NVE architecture.

Discussed changes to Clause 41.

Discussed whether to reuse the LLDP EVB TLV or create a new TLV. *Use the EVB TLV for the next draft.*

Discussed <http://www.ieee802.org/1/files/public/docs2016/cn-yizhou-IP-filter-info-1603-v01.pdf>

Li Yizhou will produce an updated presentation and begin incorporating the material into the draft.

## PM

Roger Marks presented P802c draft and received advice executing some of the comment resolutions from January.

An updated draft will be sent for task group ballot.

Because 802.11 is meeting in Hawaii and 802.1 is in Budapest the following week Roger may not be in Budapest. We should set up a bridge for comment resolution.

Have a motion to start WG ballot in May. That would allow initial WG ballot comment resolution when 802 is all in one place.

Roger Marks reviewed the Clause structure proposed in P802.1CQ/D0.1.

Hiroki Nakano presented ***Assignment and Validation of Unicast Address:***

<http://ieee802.org/1/files/public/docs2016/cq-cas-assignment-and-validation-0316-v00.pptx>

## **Maintenance Meeting Minutes**

Maintenance Meeting minutes are incorporated in these minutes by reference and are available at:

<http://www.ieee802.org/1/files/public/maint/2016-03-maintenance-meeting-v2.pdf>

Maintenance meeting minutes are in general available at:

<http://www.ieee802.org/1/maint.html>

# Closing Plenary (Thursday, 17 March, 2015)

Closing Plenary slides are available at:

<http://www.ieee802.org/1/files/public/minutes/2016-03-closing-plenary-slides.pdf>

The Chair (Glenn Parsons) led discussion of the following items:

- Material already covered in the opening plenary
  - Policy presentation and call for potentially essential patents
    - Slides 2 through 6 (ignore slide numbering)
    - ***no response to the call for potentially essential patents***
  - Officers (no change)
  - Voter updates (see slides 8 – 11)
- 802.1 Chair / Vice Chair election (slide 12)
- 802 Chair election reminder for the March (plenary) meeting (slide 13)
- Future Interim Meeting information (slide 14)
- Future Plenary (2016) meeting information (slide 15)
- Public Review (slide 16)
- Project status Sanity check – current workload review
  - 30 current projects (including in-progress PARs and 1 due to be published today)
  - See slide 17 for details
- 802 reports (slide 18)
  - IETF SC
  - JTC1 SC
    - <https://mentor.ieee.org/802.11/dcn/16/11-16-0330-02-0jtc-agenda-for-mar-2016.pptx>
  - ITU SC
    - <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0044-01-INTL-itu-standing-committee-agenda-mar-2016.pdf>
  - 5G SC
    - <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0017-04-5GSG-5g-sc-agenda-march-2016.pdf>
  - 802 TF (follows)

- 802 Task Force (slide 19)
  - Indemnification of volunteer officers/editors:
    - <https://mentor.ieee.org/802-ec/dcn/16/ec-16-0018-00-00EC-2016-overview-of-ieee-indemnification.pptx>
  - myProject replacement
    - including IMAT & Mentor, WG balloting
    - Training/Tutorial in July 2016
    - Migration/cutover in the fall
    - Support in November 2016
  - IEEE-SA staff
    - Program – Kathryn Bennett & Jonathan Goldberg
    - Editors – Michelle Turner & Catherine Berger
    - International: Jodi Haasz
    - MyProject: Christina Boyce, Greg Marchini
- Task Group Chairs reported status for the following areas (see individual task group minutes and/or status from above for details):
  - DCB: Pat summarized the DCB & Addressing meeting (see DCB minutes)
  - TSN:
    - <http://ieee802.org/1/files/public/docs2016/admin-tsn-agenda-0316-v05.pdf>
  - OmniRAN: Max summarized OmniRAN progress
    - His slides are available at:
      - <http://mentor.ieee.org/omniran/dcn/16/omniran-16-0022-00-00TG-mar-2016-status-report-to-802wgs.pptx>
  - Maintenance: John reported status for the Maintenance TG meeting:
    - <http://www.ieee802.org/1/files/public/docs2016/maint-messenger-session-0316-v3.pdf>
- The Chair then showed the slide listing incoming liaisons (slide 21) and opened the topic of Outgoing Liaisons (slide 22).

## ***Motions – See closing Plenary Slides***

**Closing Plenary adjourned**