

# IEEE 802.1 Interim Meeting

Atlanta, GA, USA

## 802.1 Meeting Minutes – 12-15 January, 2015

### Attendees

<i>Last Name</i>	<i>First Name</i>	<i>Middle Name</i>	<i>Affiliation</i>
Adrangi	Farid		Intel Corporation
Ansley	Carol		ARRIS Group
Boatright	Robert		Apple, Inc.
Chen	David		NSN, Inc.
Chen	Feng		Siemens AG
Cummings	Rodney		National Instruments Corporation
Fang	Yonggang		ZTE Corporation
Farkas	Janos		Ericsson
Finn	Norman		Cisco Systems, Inc.
Fischer	Michael		Freescale Semiconductor, Inc. Broadcom Corporation, Marvell Semiconductor, Siemens AG,
Garner	Geoffrey		Hirschmann
Gunther	Craig		Harman International Industries, Incorporated
Haddock	Stephen		Stephen Haddock Consulting, LLC
Harkins	Dan		Aruba Networks, Inc.
Hartman	Chris		Apple, Inc.
Jeffree	Anthony		HP, Broadcom
Jethanandan			
i	Mahesh		Ciena Corporation
Johas Teener	Michael		Broadcom Corporation
Jones	Peter		
Kiessling	Marcel		Siemens AG
Kim	Yongbum		Broadcom Corporation
Klein	Philippe		Broadcom Corporation
Korhonen	Jouni		Broadcom Corporation
Kumari	Warren		Google
Li	Yizhou		Huawei Technologies Co. Ltd
Llosa	Guillermo		SR Technologies, Inc.
Mangin	Christophe		Mitsubishi Electric R&D Centre Europe (MERCE)
Marin	James		Nokia Networks
Marks	Roger		EthAirNet Associates
McIntosh	James		Vitesse Semiconductor Corporation
Moskowitz	Robert		HTT Consulting
Myles	Andrew		Cisco Systems, Inc.

Nakano	Hiroki	Trans New Technology, Inc.
Pannell	Donald R	Marvell Semiconductor, Inc.
Parsons	Glenn	Ericsson AB
Pienciak	Walter	IEEE Standards Association (IEEE-SA)
Randall	Karen	NSA/IAD
Riegel	Maximilian	Nokia Networks
Romascanu	Dan	Avaya Inc.
Rouyer	Jessy	Alcatel-Lucent
		Electronics and Telecommunications Research Institute (ETRI)
Ryu	Cheol	
Samii	Soheil	General Motors Company
Sato	Atsushi	Yokogawa Electric Corporation
Seaman	Michael	Individual
Steiner	Wilfried	TTTech Computertechnik AG
Tabatabaee	Vahid	Broadcom Corporation
Thaler	Patricia	Broadcom Corporation
Thornburg	David	Cisco Systems, Inc.
Unbehagen	Paul	Avaya Inc.
Waldo	Michael	ADVA Optical Networking
wang	haifei	Huawei Technologies Co. Ltd
Weis	Brian	Cisco Systems, Inc.
Xia	Liang	Huawei Technologies Co. Ltd
Yang	Yunsong	Huawei Technologies Co. Ltd
Zinner	Helge	Robert Bosch GmbH
Zuniga	Juan	InterDigital, Inc.

# Task Group Minutes

## Interworking minutes

### *Monday, 12 January*

Interworking Task Group meeting called to order at 9:10 AM.

Stephen Haddock presented the preliminary agenda for the week.

Stephen Haddock presented patent policy slides. No response to the call for patents.

**802.1Qbz WWB:** Norm Finn conducted comment resolution on the Working Group ballot of 802.1Qbz-d1.5 Wired and Wireless Bridging.

- <http://www.ieee802.org/1/files/private/bz-drafts/d1/802-1Qbz-d1-5.pdf>
- <http://www.ieee802.org/1/files/private/bz-drafts/d1/802-1Qbz-d1-5-dis-v2.pdf>

Adjourn at 12:30

### *Tuesday, 13 January*

Joint meeting Interworking/TSN (see TSN Minutes below)

### *Wednesday, 14 January*

Interworking Task Group meeting called to order at 9:00am.

Stephen Haddock presented patent policy slides. No response to the call for patents.

**802.1Qca PCR:** Janos Farkas conducted comment resolution on the working group recirculation ballot of 802.Qca-d1.2 Path Control and Reservation:

- <http://www.ieee802.org/1/files/private/ca-drafts/d1/802-1Qca-d1-2.pdf>
- <http://www.ieee802.org/1/files/private/ca-drafts/d1/802-1Qca-d1-2-pdis-v01.pdf>

**New Work:** Dan Romascanu presented a draft PAR and CSD for the project to enable auto-attachment of network devices to PBB backbone service instances. The final edited version of the PAR and CSD are:

- <http://www.ieee802.org/1/files/public/docs2015/new-autoattach-romascanu-par-0115-v00.pdf>
- <http://www.ieee802.org/1/files/public/docs2015/new-autoattach-romascanu-csd-0115-v00.pptx>

**Liaison:** The ITU liaison LS214 was reviewed. No response is required. The IETF liaison regarding ECN, and the referenced internet draft, was reviewed. It does not appear that there is anything in the draft that would require action on the part of 802.1 at

this time, however several members of the group would like to review the draft in more detail and may have comments in the future. It is expected that during the March plenary a response will be generated thanking the IETF for notifying us of this work and that it will be taken into consideration if the 802.1 Working Group initiates a project involving congestion notification.

- <http://www.ieee802.org/1/files/public/docs2015/liaison-SG15-LS214-Etherent-0115.zip>
- <http://www.ieee802.org/1/files/public/docs2015/liaison-IETF-ExplicitCongestionNotification-0115.txt>
- <http://tools.ietf.org/html/draft-ietf-tsvwg-ecn-encap-guidelines>

Adjourn at 12:45pm

## **TSN Minutes**

### ***Monday, 12 January***

#### **0900-1730, TSN**

Michael Johas Teener presented Administration, Patent Policy, and Agenda. There was no response to the call for patents.

Geoff Garner presented IEEE 802.1AS Revision Draft 0.8

- <http://www.ieee802.org/1/files/private/as-rev-drafts/d0/802-1AS-rev-d0-8.pdf>

Feng Chen presented Requirements of Industrial Automation for Time Synchronization

- <http://www.ieee802.org/1/files/public/docs2015/as-chen-goetz-industrial-requirements-for-time-sync-0115-v01.pdf>

Rodney Cummings presented IEEE 1588 and 802 coordination (version 1)

- <http://www.ieee802.org/1/files/public/docs2015/as-cummings-1588-802-coordination-0115-v1.pdf>

### ***Tuesday, 13 January***

#### **0900-1030, Joint IWK/TSN**

Michael Johas Teener reviewed Patent Policy. There was no response to the call for patents.

Geoff Garner presented Ballot Results for 802.1AS-Cor-2

- <http://www.ieee802.org/1/files/private/as-cor-2-drafts/d0/802-1AS-cor-2-d0-1.pdf>

János Farkas presented 802.1Qca Status

- <http://www.ieee802.org/1/files/private/ca-drafts/d1/802-1Qca-d1-2-pdis-v01.pdf>
- <http://www.ieee802.org/1/files/private/ca-drafts/d1/802-1Qca-d1-3.pdf>

Rodney Cummings presented 802.1Qcc D0.3 Comment Resolution (Part One)

- <http://www.ieee802.org/1/files/private/cc-drafts/d0/802-1Qcc-d0-3-pdis-v1.pdf>
- <http://www.ieee802.org/1/files/private/cc-drafts/d0/802-1Qcc-d0-3.pdf>

<<Local Address Study Group covers minutes of their meeting from 10:30-12:30.>>

### **1330-1800, Joint IWK/TSN**

Rodney Cummings presented 802.1Qcc D0.3 Comment Resolution (Part Two)

- <http://www.ieee802.org/1/files/private/cc-drafts/d0/802-1Qcc-d0-3-pdis-v1.pdf>
- <http://www.ieee802.org/1/files/private/cc-drafts/d0/802-1Qcc-d0-3.pdf>

Norm Finn presented 802.1CB D0.5 Comment Resolution

- <http://www.ieee802.org/1/files/private/cb-drafts/d0/802-1CB-d0-5-pdis-v1.pdf>
- <http://www.ieee802.org/1/files/private/cb-drafts/d0/802-1CB-d0-5.pdf>

Mahesh Jethanandani presented YANG models for 802.1

- <http://www.ieee802.org/1/files/public/docs2015/new-802-mahesh-yang-0115-v00.pdf>

Yongbum Kim presented Ingress Policing PAR and CSD Proposal

- <http://www.ieee802.org/1/files/public/docs2015/new-tsn-Ingress-Policing-PAR-0115-v00.pdf>
- <http://www.ieee802.org/1/files/public/docs2015/new-tsn-Ingress-policing-CSD-0115-v00.pdf>
- <http://www.ieee802.org/1/files/public/docs2015/new-tsn-Ingress-Policing-Objectives-DRAFT-0115-v01.pdf>

Glenn Parsons presented ITU/1588/CPRI liaison Discussion

- <http://www.ieee802.org/1/files/public/docs2015/liaison-SG15-LS206-PTPoLAG-0115.zip>
- <http://www.ieee802.org/1/files/public/docs2015/liaison-SG15-LS199-OTNT-0115.zip>
- <http://www.ieee802.org/1/files/public/docs2015/liaison-SG15-LS214-Etherent-0115.zip>
- <http://www.ieee802.org/1/files/public/docs2015/liaison-IETF-ExplicitCongestionNotification-0115.txt>
- <http://www.ieee802.org/1/files/public/docs2015/liaison-request-1588-0115.pdf>
- [http://www.ieee802.org/1/files/public/docs2015/liaison-CPRI\\_answer\\_to\\_IEEE\\_LS-0115.DOCX](http://www.ieee802.org/1/files/public/docs2015/liaison-CPRI_answer_to_IEEE_LS-0115.DOCX)

### ***Wednesday, 14 January***

#### **0900-1800, TSN**

Michael Johas Teener reviewed Patent Policy. There was no response to the call for patents.

Tony Jeffree presented P802.1Qbu Comment Resolution

- <http://www.ieee802.org/1/files/private/bu-drafts/d2/802-1Qbu-d2-0.pdf>
- <http://www.ieee802.org/1/files/private/bu-drafts/d2/802-1Qbu-D2-0-pdis-v1.pdf>

Tony Jeffree presented P802.1Qbv Comment Resolution

- <http://www.ieee802.org/1/files/private/bv-drafts/d2/802-1Qbv-d2-1.pdf>
- <http://www.ieee802.org/1/files/private/bv-drafts/d2/802-1Qbv-D2-1-pdis-v1.pdf>

### ***Thursday, 15 January***

#### **0800-1200, Joint TSN/802.3br (IET)**

Michael Johas Teener reviewed Patent Policy. There was no response to the call for patents.

Ludwig Winkel discussed 802.3br (IET) update

Pat Thaler discussed results of 802.3br comment review

- <http://grouper.ieee.org/groups/802/3/br/public/index.html>

## **1100-1600, TSN**

Norm Finn presented Input/Stream Gate Mechanism Proposal

- <http://www.ieee802.org/1/files/public/docs2015/new-nfinn-input-gates-0115-v04.pdf>

Norm Finn presented Input/Stream Gate PAR

- <http://www.ieee802.org/1/files/public/docs2015/new-nfinn-stream-gates-par-0115-v02.txt>

Jouni Korhonen presented IEEE1904.3 Update

- <http://www.ieee802.org/1/files/public/docs2015/new-roe-jik-ieee1904dot3-0115-v00.pptx>

David Chen and Glenn Parsons presented Proposed Response to CPRI Liaison Request

- <http://www.ieee802.org/1/files/public/docs2015/liaison-cpri-chen-proposed-response-0114-v00.pdf>

János Farkas and Glenn Parsons presented Proposed Response to ITU SG 15/13 Liaison Request w/r/t LAG and PTP

- <http://www.ieee802.org/1/files/public/docs2015/liaison-response-itu-t-ls206-0115-v01.pdf>
- <http://www.ieee802.org/1/files/public/docs2015/liaison-response-itu-t-ls206-0115-v01.pdf>

Norm Finn presented Input/Stream Gate CSD

- <http://www.ieee802.org/1/files/public/docs2015/new-nfinn-input-gates-csd-0115-v01.pdf>
- <http://www.ieee802.org/1/files/public/docs2015/new-nfinn-stream-gates-par-0115-v03.txt>
- <http://www.ieee802.org/1/files/public/docs2015/new-nfinn-input-gates-csd-0115-v02.pdf>

Michael Johas Teener presented One-step for 802.1AS Rev

- <http://www.ieee802.org/1/files/public/docs2015/asbt-mjt-one-step-0115-v01.pdf>

Rodney Cummings discussed his IEEE 1588 Proposal on the Internal Implementation Field

- <http://www.ieee802.org/1/files/public/docs2015/as-cummings-1588-upkeep-work-item-89-0115.pdf>

Rodney Cummings discussed IEEE 1588 and 802 coordination, and held a straw poll (version 2 includes straw poll results)

- <http://www.ieee802.org/1/files/public/docs2015/as-cummings-1588-802-coordination-0115-v2.pdf>

# **Security Minutes**

## **Agenda**

Agenda items were previously circulated with the meeting announcement:

1. P802.1ARce - a new draft will be circulate prior to the meeting
2. P802.1AEcg - including multiple SCs/ replay protection with preemption and provider priority reordering
3. 802.15.9 liaison/participation
4. 802.1AE references from .1Qbz, .1AC, and .1Qcc
5. 4 IEEE 802.1X maintenance items
6. AOB

## **Meeting details**

The chair showed the Patent Policy slides and issued a call for patents.

There were no responses to the call at this time.

1. **P802.1ARce**: reviewed unresolved issues in draft 0.7 including references, PKI hierarchy requirements, validation and CRL issues, trust model,
2. **P802.1AEcg**: primarily focused on completion of preemption/priority solution. new draft to be available before the next meeting.
3. **802.15.9 liaison/participation**: Brian attended the Ballot resolution sessions for the IEEE 802.1 security task group. Those meetings are minuted separately.
4. **802.1AE references from .1Qbz, .1AC, and .1Qcc**: These references were discussed and clarified. No immediate action required.
5. **IEEE 802.1X Maintenance Items**: Four IEEE 802.1X maintenance items were discussed : proposed actions will be prepared before the March plenary meeting. [Post-meeting note responses were discussed and agreed in the February 3rd teleconference call].

6. **YANG models (AOB)**: The YANG model proposal for 802.1X was discussed briefly, with guidance as to the PAR process [Post-meeting note, the results of this discussion were incorporated in the draft PAR and informed the discussion at the March plenary meeting, particularly with reference to the agreement to use the existing UML as a base.

Future teleconferences and meetings: teleconferences were scheduled for February 3 and February 17. The task group will meet at the March 2015 Plenary in Berlin.

## ***Maintenance***

The maintenance Interim and conference meeting minutes are incorporated in these minutes by reference and are available at:

- <http://www.ieee802.org/1/files/public/maint/2015-01-maintenance-telecon-and-meeting-v2.pdf>

Maintenance meeting minutes for prior meetings are available via:

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

## ***OmniRAN***

The conference call minutes for 16 December are incorporated in these minutes by reference and are available at:

- <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0087-00-00TG-december-16-meeting-minutes.docx>

Amended meeting slides for this conference call are available at:

- <https://mentor.ieee.org/omniran/dcn/14/omniran-14-0086-01-00TG-december-16-confcall-slides.pptx>

The minutes for the Interim meeting are incorporated in these minutes by reference and are available at:

- <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0007-00-00TG-january-2015-f2f-meeting-minutes.docx>

Amended meeting slides for the Interim meeting are available at:

- <https://mentor.ieee.org/omniran/dcn/15/omniran-15-0001-02-00TG-january-2015-meeting-slides.pptx>