

# IEEE 802.1 Interim Meeting

Ottawa, Ontario, Canada

## 802.1 Meeting Minutes – 8-11 September 2014

### Attendees

<i>Last Name</i>	<i>First Name</i>	<i>Middle Name</i>	<i>Affiliation</i>
Boiger	Christian		b-plus GmbH
Bragg	Nigel		ciena
Chen	Feng		Siemens AG
Cummings	Rodney		National Instruments Corporation
Estes	David		Spirent Communications
Farkas	Janos		Ericsson
Finn	Norman		Cisco Systems, Inc.
Garner	Geoffrey		broadcom corporation, marvell semiconductor, siemens ag, hirschmann
Ghanwani	Anoop		Dell
Gravel	Mark		Hewlett-Packard Development Company, L.P.
Gunther	Craig		Harman International Industries, Incorporated
Jeffree	Anthony		HP, Broadcom
Johas Teener	Michael		Broadcom Corporation
Jones	Peter		Cisco Systems, Inc.
Kabra	Lokesh		Synopsys, Inc.
Kiessling	Marcel		Siemens AG
Kim	Yongbum		Broadcom Corporation
Korhonen	Jouni		Broadcom Corporation
Larios	Efstathios		Jaguar Land Rover (JLR)
Mack-Crane	Thomas		Huawei Technologies Co. Ltd
Mangin	Christophe		Mitsubishi Electric R&D Centre Europe (MERCE)
Messenger	John		ADVA Optical Networking Ltd.

Meyer	Peter	Microsemi Corporation
Multanen	Eric	Intel Corporation
		Marvell Semiconductor, Inc.
Pannell	Donald R	Ericsson AB
Parsons	Glenn	Alcatel-Lucent
Roberts	Peter	Alcatel-Lucent
Rouyer	Jessy	Ericsson AB
Saltsidis	Panagiotis	Yokogawa Electric Corporation
Sato	Atsushi	University of Duisburg- Essen and General Motors Company
Specht	Johannes	TTTech Computertechnik AG
Steiner	Wilfried	Broadcom Corporation
Tabatabaee	Vahid	Broadcom Corporation
Thaler	Patricia	Siemens AG
Tretter	Albert	Avaya Inc.
Unbehagen	Paul	National Instruments Corporation
Walter	Todd	Continental Automotive Systems AG
Zinner	Helge	InterDigital, Inc.
Zuniga	Juan	

# Task Group Minutes

## Interworking minutes

### *Monday, 8 September, through Thursday, 11 September*

The interim meeting was held in Ottawa, Canada in an out of town location close to the Ericsson office. Stephen Haddock, the chair of the Interworking Task Group, was not able to attend the meeting. John Messenger ran the Interworking sessions.

### Interworking

John Messenger presented the Interworking [agenda](#) comprising comment resolution on DRNI (802.1AX-Rev), 802.1AC (MAC Service Specification), 802.1Qca (Path Control and Reservation), Liaisons, any new work. On Monday, Wednesday and Thursday mornings John presented the patent slides and made the call for patents and no responses were received.

### 802.1AX-Rev DRNI

This document is in sponsor ballot, but significant technical changes are still being made.

All comments were addressed and Panos will upload a new draft 4.5 and a changebar version, and start the recirculation ballot.

### 802.1AC-Rev MAC Service Specification

The document has recently completed initial Working Group ballot (D1). Comment resolution was undertaken during the week. There were 47 comments. The ballot did not pass. All comments were addressed and a new draft will be issued before November for ballot.

### 802.1Qca - Path Control and Reservation

This draft has been out for Working Group balloting. There were around 100 comments and they were all addressed. The ballot did not pass. A new draft will be prepared for Working Group ballot ahead of the November meeting.

### Liaisons

MEF has sent a liaison to IETF (with copy to 802.1) on a potential overlap between MEF 38 & 39 with draft-tissa-netmod-oam:

[http://www.ieee802.org/1/files/public/docs2014/liaison-MEF-L00214\\_IETF\\_OAM YANG.docx](http://www.ieee802.org/1/files/public/docs2014/liaison-MEF-L00214_IETF_OAM YANG.docx)

This was presented but the group did not wish to make a response.

ITU-T has sent us a liaison with further clarification questions on DRNI:

[http://www.ieee802.org/1/files/public/docs2014/liaison-ITUTSG15-LS165\\_WP3-199\\_Ann3-0914.docx](http://www.ieee802.org/1/files/public/docs2014/liaison-ITUTSG15-LS165_WP3-199_Ann3-0914.docx)

This was presented and Panos, Jessy and Janos were assigned to draft a liaison response for consideration in November.

### LLDP Auto-attach

Paul Unbehagen introduced a [proposal](#) for LLDP features to let IoT devices attach to the correct SPBM network, without those devices having to implement MAC-in-MAC.

Paul (etc.) has written an Internet draft ([draft-unbehagen-lldp-spb-00](#)), but feels it would be better to do this work in 802.1. The idea would be to define LLDP extensions to support automatic configuration of the mappings. This may result in a proposal for a Q amendment in November.

### Local MAC Addressing amendment to P802

Pat Thaler presented a draft [PAR](#) and [CSD](#) for an amendment to P802 defining a segment of the local address space to be used with a company ID as part of the address. These will be pre-circulated to the 802 executive committee prior to the November meeting in anticipation of approval in November.

# TSN Minutes

## ***Monday, 8 September***

### **0900-1700, TSN**

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

Michael Johas Teener presented a Liason Request from IEEE 1588

<http://www.ieee802.org/1/files/public/docs2014/liason-ieee1588-future-accuracy-requirements-and-asymmetry-compensation-0814.pdf>

Geoff Garner presented IEEE 802.1AS Revision Draft 0.6

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

Rodney Cummings presented 802.1AS: Proposal for Redundant Paths

<http://www.ieee802.org/1/files/public/docs2014/as-cummings-redundant-paths-0914-v1.pdf>

## ***Tuesday, 9 September***

### **0900-1700, Joint IWK/TSN**

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

János Farkas presented P802.1Qca D1.0 Discussion

<http://www.ieee802.org/1/files/public/docs2014/ca-farkas-d1-0-editor-report-0914-v01.pdf>

János Farkas presented Explicit Control of Aggregation Links via IS-IS

<http://www.ieee802.org/1/files/private/ca-drafts/d1/802-1Qca-d1-0.pdf>

Norman Finn presented P802.1CB D0.4 Discussion

<http://www.ieee802.org/1/files/private/cb-drafts/d0/802-1CB-d0-4.pdf>

<http://www.ieee802.org/1/files/public/docs2014/cb-nfinn-decisions-needed-0914-v02.pdf>

Norman Finn presented P802.1CB Input Gates

<http://www.ieee802.org/1/files/public/docs2014/cb-nfinn-input-gates-0914-v01.pdf>

Todd Walter presented Centralized Network Configuration

<http://www.ieee802.org/1/files/public/docs2014/cc-twalter-central-config-0914-v01.pdf>

Marcel Kiessling presented thoughts about MSRP

<http://www.ieee802.org/1/files/public/docs2014/cc-kiessling-thoughts-about-MSRP-v01.pdf>

Juan Carlos Zuniga presented EC Privacy SG update

<https://mentor.ieee.org/privectsg/dcn/14/privectsg-14-0007-01-ecsg-update-to-802-wgs-at-sep-interim-meetings.pptx>

### **1700-1800, TSN**

Feng Chen presented Discussion of proposals for Redundancy in 802.1ASbt

<http://www.ieee802.org/1/files/public/docs2014/as-chen-discussion-redundancy-0914-v02.pdf>

## ***Wednesday, 10 September***

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

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

Tony Jeffree presented P802.1Qbu Ballot Review

<http://www.ieee802.org/1/files/private/bu-drafts/d1/802-1Qbu-D1-0-pdis-v3.pdf>

<http://www.ieee802.org/1/files/private/bu-drafts/d1/802-1Qbu-d1-0.pdf>

Christian Boiger presented Credit Based Shaper with Preemption Support

<http://www.ieee802.org/1/files/public/docs2014/bu-boiger-CBS-Preemption-Support-0914-v01.pdf>

Tony Jeffree presented P802.1Qbv Draft 2.0 Review

<http://www.ieee802.org/1/files/private/bv-drafts/d2/802-1Qbv-d2-0.pdf>

## ***Thursday, 11 September***

### **0900-1100, Joint TSN/802.3br (IET)**

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

Garry Irvine presented CPRI Transport

<http://www.ieee802.org/1/files/public/docs2014/new-irvine-mobile-networks-fronthaul-0914.pdf>

Ludwig Winkel discussed 802.3br (IET) update

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

Pat Thaler presented Alternatives for IET Management Relationships

<http://www.ieee802.org/1/files/public/docs2014/bu-thaler-iet-management-model-alternatives-v01.pdf>

Don Pannell and Peter Jones presented Signaled Minimum Fragment Size for IET

<http://www.ieee802.org/1/files/public/docs2014/3br-pannell-jones-initial-preempt-point-0914-v2.pdf>

Christian Boiger presented Time Synchronization Service Interface and Preemption  
<http://www.ieee802.org/1/files/public/docs2014/as-boiger-TSSI-and-Preemption-0914-v03.pdf>

### **1100-1700, TSN**

Michael Johas Teener presented Cyclic Queuing and Shaping (peristaltic shaper) PAR and CSD (renamed from Synchronous Queuing and Shaping)

<http://www.ieee802.org/1/files/public/docs2014/new-tsn-mjt-peristaltic-shaper-par-5c-0312-v02.pdf>

<http://www.ieee802.org/1/files/public/docs2014/ch-mjt-cyclic-queuing-and-forwarding-par-csd-0814-v01.pdf>

Rodney Cummings presented IEEE 1588 Discussion

<http://www.ieee802.org/1/files/public/docs2014/as-cummings-1588-update-0914-v1.pdf>

Feng Chen presented Flow Metering for Guaranteed Low-Latency of Industrial Control-Data Streams

<http://www.ieee802.org/1/files/public/docs2014/tsn-chen-flow-metering-0914-v01.pdf>

Rodney Cummings presented 802.1Qcc Assumptions Update

<http://www.ieee802.org/1/files/public/docs2014/cc-cummings-assumptions-0914-v1.pdf>

Don Pannell presented Assumptions and Architecture Review

<http://www.ieee802.org/1/files/public/docs2014/tsn-pannell-general-assumptions-0914-v1.pdf>

## ***Security Minutes***

There was no Security Task Group Meeting at this Interim.

There was a minuted Security teleconference on 25 August. The minutes reported for this meeting were as follows:

### ***Attendees:***

Karen Randall

Brian Weis

Dan Romascanu

Mick Seaman (802.1 Security Task Group Chair, minutes of this meeting)

### ***Agenda items:***

1. P802.1AEcg progression
2. P802.1ARce progression
3. 802.3 preemption and MACsec
4. A.O.B

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

There were no responses to the call at this time.

1. The P802.1AEcg PAR has been approved by Nescom.
2. The P802.1ARce PAR has been approved by Nescom.
3. Mick introduced the document

<http://www.ieee802.org/1/files/public/docs2014/ae-seaman-preemption-0814-v02.pdf>

There was a brief discussion and some of the points arising have been captured in a modest revision of this draft document, now at:

<http://www.ieee802.org/1/files/public/docs2014/ae-seaman-preemption-0814-v02.pdf>

The intent was that this should enable future discussion and contribution to P802.1Qbu as well as other documents.

4. A.O.B: No other issues were raised at this time, apart from the usual discussion of future meetings (below).
5. Future teleconferences and meetings: Further teleconferences had already been scheduled and announced for October (1st and 22nd) and these would enable us to prepare for our meetings during the 802 plenary in November.



## ***DCB Minutes***

### ***Monday, 8 September***

Meeting started at 1:30 PM.

Pat Thaler presents patent policy and guideline slides. Pat asked if there was anyone wanting to make a patent declaration. There was no response to this call for patents.

Anoop Ghanwani presented “Lossless Traffic Over Long Distance Links in DCB Networks” -

<http://www.ieee802.org/1/files/public/docs2014/new-dcb-ghanwani-lossless-long-dist-0914-v01.pdf>

- Anoop Ghanwani to review TSN Credit Based Shaper (CBS) burst behavior; can CBS satisfy burst requirements that are anticipated in the Data Center?
- Discussed getting Mick Seaman engaged about making reviewing MACSec delay constraints in regards to PFC

2:00 P.M. – meeting break

3:15 P.M. – meeting resumed

Discussed Application VLAN TLV 1<sup>st</sup> sponsor ballot statistics:

- 81% Participation Rate
- 100% Approval Rate
- 7% Abstained
- 64 Ballots Received

Meeting adjourned

## ***Maintenance***

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

- <http://www.ieee802.org/1/files/public/maint/2014-09-maintenance.pdf>

## ***OmniRAN***

There were no OmniRAN meetings at the Ottawa location, or on the 802.1 Interim meeting dates.

Instead, the task group had a conference call on 4 September and an OmniRAN interim meeting was held in Athens, Greece from Monday, 15 September through Thursday, 18 September.

The conference call minutes for 4 September are incorporated in these minutes by reference and are available at:

<https://mentor.ieee.org/omniran/dcn/14/omniran-14-0062-00-00TG-sept-4th-meeting-minutes.docx>

Slides for the face-to-face meeting in Athens are available at:

<https://mentor.ieee.org/omniran/dcn/14/omniran-14-0064-04-00TG-september-2014-f2f-meeting-slides.pptx>

The minutes for the face-to-face meeting are incorporated in these minutes by reference and are available at:

<https://mentor.ieee.org/omniran/dcn/14/omniran-14-0071-00-00TG-sept-2014-f2f-meeting-minutes.docx>

Attendance at the face to face meeting is not available via IMAT and is not included in the attendance reported in these minutes – though it is recorded in the minutes at the location referenced above.