

# IEEE 802.1 Working Group

## 10-14 September 2018 Interim Meeting

### Oslo, Norway

### Meeting Minutes

The acting 802.1 Chair, John Messenger, presided.  
 The 802.1 Recording Secretary, Jessy Rouyer, wrote the minutes in part based on input from 802.1 Task Group Chairs.

## 1 Attendance and affiliation

Name	Affiliation	Mon 08:00 - 13:00 TSN TG	Mon 14:00 - 18:00 TSN TG	Mon 16:30 - 18:00 OmniRAN TG	Tue 08:00 - 09:00 Maintenance TG	Tue 09:00 - 13:00 TSN TG + IEC/IEEE 60802 Joint Project	Tue 10:00 - 13:00 OmniRAN TG	Tue 14:00 - 18:00 OmniRAN TG	Tue 14:00 - 18:00 TSN TG	Tue 14:00 - 18:00 IEC/IEEE 60802 Joint Project	Wed 07:30 - 10:30 NEND ICA	Wed 08:00 - 13:00 TSN TG	Wed 08:00 - 13:00 IEC/IEEE 60802 Joint Project	Wed 11:00 - 13:00 OmniRAN TG	Wed 14:00 - 18:00 OmniRAN TG	Wed 14:00 - 18:00 TSN TG	Wed 14:00 - 18:00 IEC/IEEE 60802 Joint Project	Thu 08:00 - 13:00 TSN TG	Thu 08:00 - 13:00 IEC/IEEE 60802 Joint Project	Thu 08:30 - 13:00 OmniRAN TG	Thu 14:00 - 18:00 TSN TG + IEC/IEEE 60802 Joint Project	Fri 08:00 - 13:00 TSN TG
Adachi	Yoshiaki	Hitachi, Ltd.				•				•			•								•	
ADEMAJ	Astrit	TTTech Computertechnik AG				•				•			•								•	
Assmann	Ralf	Marvell Semiconductor, Inc.	•	•	•				•			•									•	•
Baba	Takenori	Mitsubishi Electric Corporation				•				•			•								•	•
Bao	Shenghua	HUAWEI	•	•		•			•			•									•	•
Bjornstad	Steinar	TransPacket																				•
Boiger	Christian	b-plus GmbH	•	•	•	•			•			•									•	•
Canchi	Radhakrishna	Kyocera International Inc.	•	•	•	•				•	•										•	•
Chang	Xin	Huawei Technologies Co. Ltd	•			•				•			•								•	•
Chen	David	Nokia	•	•		•				•		•									•	•
Chen	Feng	Siemens AG	•	•		•				•			•								•	•
Congdon	Paul	Tallac Networks; Huawei	•	•	•	•			•		•										•	•
Cummings	Rodney	National Instruments Corporation	•	•		•				•		•									•	•
DeLaOlivaDelgado	Antonio	Universidad Carlos III Madrid	•	•		•	•			•		•									•	•
Dorr	Josef	Siemens AG			•	•				•			•								•	•
Elbakoury	Hesham	Huawei Technologies Co. Ltd	•	•		•				•			•								•	•
Ellegaard	Lars	Microsemi Corporation	•	•	•	•				•			•								•	•
Farkas	Janos	Ericsson	•	•	•	•			•			•									•	•
Finn	Norman	Huawei Technologies Co. Ltd	•	•	•	•			•			•									•	•
Fontaine	Mickael	TransPacket	•	•					•			•									•	•
Garner	Geoffrey	Huawei Technologies Co. Ltd	•	•	•	•			•			•									•	•
Godfrey	Tim	Electric Power Research Institute, Inc. (EPRI)									•											
Gunther	Craig	Craig Gunther Consulting, LLC	•	•	•	•			•				•								•	•
Gutierrez	Marina	TTTech Computertechnik AG	•	•	•	•			•			•									•	•
Haddock	Stephen	Stephen Haddock Consulting, LLC	•	•	•	•			•			•									•	•

IEEE 802.1 10-14 September 2018 Interim Meeting in Oslo, Norway

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Hantel	Mark	Rockwell Automation	•	•			•				•			•					•	•		•	•
Harima	Taro	Mitsubishi Electric Corporation					•				•			•					•	•		•	•
Hellmanns	David	University of Stuttgart	•	•			•				•			•					•	•		•	•
Hemmer	David	PILZ					•				•			•					•	•		•	•
Holness	Marc	Ciena Corporation	•	•			•			•			•						•	•		•	•
Hotta	Yoshifumi	Mitsubishi Electric Corporation	•			•	•				•			•					•	•		•	•
Itaya	Satoko	National Institute of Information and Communications Technology (NICT)	•		•		•				•		•						•	•		•	•
Kehrer	Stephan	Hirschmann Automation and Control, Inc.	•	•		•	•				•			•					•	•		•	•
Kojima	Fumihide	National Institute of Information and Communications Technology (NICT)	•	•		•	•				•	•		•					•	•		•	•
KONDO	Kenji	Yaskawa Electric Corp					•				•			•					•	•		•	•
KOTO	Hajime	National Institute of Information and Communications Technology (NICT)	•	•				•			•	•		•					•	•		•	•
Mangin	Christophe	Mitsubishi Electric Corporation	•	•			•				•			•					•	•		•	•
Mansfield	Scott	Telefon AB LM Ericsson	•	•		•	•				•			•					•	•		•	•
Marks	Roger	EthAirNet Associates; Huawei										•											
Maruhashi	Kenichi	NEC Corporation	•	•			•				•	•		•					•	•		•	•
Messenger	John	ADVA Optical Networking Ltd.	•	•		•	•			•			•						•	•		•	•
Mihalache	Razvan	Robert Bosch GmbH	•	•		•	•			•			•						•	•		•	•
Mustala	Tero	Nokia Networks	•	•			•				•			•					•	•		•	•
Nakamura	Minoru	Mitsubishi Electric Corporation												•									
NOMIZU	TAKUMA	Hitachi, Ltd.					•				•			•					•	•		•	•
Osagawa	Daisuke	Mitsubishi Electric Corporation	•			•	•				•			•					•	•		•	•
Pannell	Donald	NXP Semiconductors	•	•			•			•			•						•	•		•	•
Parsons	Glenn	Ericsson AB	•	•		•	•			•			•						•	•		•	•
Potts	Michael	General Motors Company	•	•		•	•			•			•						•	•		•	•
QUU	WEI	Huawei Technologies Co., Ltd	•	•		•	•				•			•					•	•		•	•
Riegel	Maximilian	Nokia Networks			•	•	•		•	•			•						•	•		•	•
Rouyer	Jessy	Nokia		•		•	•			•			•						•	•		•	•
Roy	Rajeev	NXP Semiconductors					•			•			•						•	•		•	•
Sato	Atsushi	Yokogawa Electric Corporation	•	•		•	•				•			•					•	•		•	•
Seaman	Michael	Individual					•	•															
Seewald	Maik	Cisco Systems, Inc.		•		•	•				•			•					•	•		•	•
Specht	Johannes	University of Duisburg-Essen and General Motors Company	•	•			•			•			•						•	•		•	•
Stanica	Marius	ABB AB	•	•			•				•			•					•	•		•	•
Steindl	Guenther	Siemens AG				•	•				•			•					•	•		•	•
Tarui	Isao	Mitsubishi Electric Corporation	•								•			•					•	•		•	•
traore	karim	Microchip/Microsemi Corporation								•			•						•	•		•	•
Unbehagen	Paul	Avaya Inc.					•			•			•						•	•		•	•

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Wamsser	Reiner	IEC SC65C MT9-Member					•				•			•										
Wang	Hao	Fujitsu Research & Development Center	•		•			•	•					•								•	•	•
Wang	Tongtong	Huawei Technologies Co. Ltd	•	•			•				•		•				•		•			•	•	
Weber	Karl	Beckhoff	•	•		•	•				•	•							•		•	•	•	
Winkel	Ludwig	Siemens AG	•	•		•	•				•			•					•		•	•	•	
Woods	Jordon	Analog Devices Inc.	•	•			•				•			•					•	•		•	•	
Xue	Wenqian	Fujitsu Research & Development Center	•	•			•							•					•			•	•	
YU	XIANG	Huawei Technologies Co., Ltd	•	•		•	•			•			•						•			•	•	
Zein	Nader	NEC Europe (NLE)	•	•		•	•			•		•		•					•		•	•	•	
Zhu	Chunhui	Huawei R&D USA	•	•		•	•						•						•		•	•	•	
Zuponic	Steven	Rockwell Automation	•	•			•			•				•					•		•	•	•	

## 2 802.1 Officers and Management

<b>Glenn Parsons</b>	Working Group Chair
<b>John Messenger</b>	Working Group Vice-chair and acting Chair
<b>Jessy Rouyer</b>	Working Group Secretary and acting Vice Chair
<b>János Farkas</b>	Time Sensitive Networking Task Group Chair
<b>Craig Gunther</b>	Time Sensitive Networking Task Group Secretary
<b>Mick Seaman</b>	Security Task Group Chair
<b>Max Riegel</b>	OmniRAN Task Group Chair
<b>Paul Congdon</b>	Maintenance Task Group acting Chair
<b>Roger Marks</b>	NEND ICA Chair
<b>Ludwig Winkel</b>	IEC/IEEE 60802 Joint Project Chair

<b>Josef Dorr</b>	IEC/IEEE 60802 Joint Project Secretary
<b>Mark Hantel</b>	Email Maintenance and IEC/IEEE 60802 Joint Project Website Maintenance
<b>Paul Unbehagen</b>	Website Maintenance
<b>Hal Keen</b>	Email Maintenance

## 3 Task Group Meetings

### 3.1 Maintenance

Maintenance Task Group meeting minutes are incorporated into these minutes by reference and are available at <http://www.ieee802.org/1/files/public/maint/2018-09-maintenance-meeting-v1.pdf>.

### 3.2 OmniRAN

OmniRAN Task Group meeting minutes are incorporated into these minutes by reference and are available at <https://mentor.ieee.org/omniran/dcn/18/omniran-18-0076-00-00TG-sep-2018-f2f-meeting-minutes.docx>.

Current status of OmniRAN Task Group 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>.

### 3.3 Security

The Security TG did not meet at this meeting.

### 3.4 Time-Sensitive Networking

The Time-Sensitive Networking (TSN) Task Group Chair, János Farkas presided. Craig Gunther wrote the minutes.

At the beginning of the meetings on Monday, Tuesday, Wednesday, Thursday and Friday, János Farkas or Stephen Haddock presented the IEEE-SA PatCom Patent Slides for Standards Development Meetings <https://development.standards.ieee.org/myproject/Public/mytools/mob/slideset.pdf>, and made the Call for Potentially Essential Patents. There were no responses to the calls prior to the end of the week's session.

#### Monday 10 September 2018

**8:00 AM (call to order by János Farkas) to 6:00 PM, with a 1-hour lunch break**

János Farkas presented the participation slide <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt>, and the agenda for the TSN Task Group meeting week <https://1.ieee802.org/september-2018-interim-meeting-in-oslo-norway-tsn-tg-agenda/>.

**Disposition:** The agenda was reviewed and approved.

Geoff Garner, P802.1AS-Rev editor, presented *P802.1AS-Rev/D7.3 Editor's Report* <http://www.ieee802.org/1/files/public/docs2018/as-garner-802-1AS-Rev-d7-3-wg-ballot-recirc-editors-report-0918-v01.pdf> then led the resolution of comments received on <http://www.ieee802.org/1/files/private/as-rev-drafts/d7/802-1AS-rev-d7-3.pdf>.

**Disposition:** Continued in a later session.

Rodney Cummings presented *Experimental YANG for Time Sync (IEEE 1588-rev & 802.1AS-rev)* <http://ieee802.org/1/files/public/docs2018/as-cummings-experimental-yang-time-sync-0918-v2.pdf>.

**Disposition:** For information only.

Don Pannell presented *Priority Support for PLCA* <http://www.ieee802.org/1/files/public/docs2018/new-TSN-pannell-Priority-for-PLCA-for-8023-0918-v07.pdf>.

**Disposition:** For information only.

## Tuesday 11 September 2018

### 9:00 AM (call to order by János Farkas) to 1:00 PM

Minutes of this session, a joint session of the TSN TG and IEC/IEEE 60802 Joint Project, are incorporated into these minutes by reference and are available at <http://www.ieee802.org/1/files/public/60802/2018-09-60802-meeting-v1.pdf>.

### 2:00 PM to 6:00 PM

Scott Mansfield presented *Yangster Update* <http://www.ieee802.org/1/files/public/docs2018/yangsters-smansfield-status-0918-v01.pdf> and *Github Readme files* <http://www.ieee802.org/1/files/public/docs2018/yangsters-smansfield-github-readme-0918-v02.pdf>.

**Disposition:** For information only.

Marina Gutiérrez, P802.1Qcw editor, presented *IEEE P802.1 Qcw/D0.1 YANG Data Models for TSN: Status Report* <http://www.ieee802.org/1/files/public/docs2018/cw-gutierrez-status-0918-v01.pdf> and reviewed <http://www.ieee802.org/1/files/private/cw-drafts/d0/802-1Qcw-d0-1.pdf>.

**Disposition:** Editor's update on ongoing project.

Johannes Specht, P802.1Qcr editor, continued (from a previous meeting) the resolution of comments received on <http://ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-5.pdf> and presented *P802.1Qcr/D0.5 - Last Comments* <http://www.ieee802.org/1/files/public/docs2018/cr-specht-d0-5-last-comments-v00.pdf>.

**Disposition:** Continued in a later session.

János Farkas presented and led the review of the draft PAR <http://www.ieee802.org/1/files/public/docs2018/new-farkas-CM-amendment-draft-PAR-v04.pdf> and CSD <http://www.ieee802.org/1/files/public/docs2018/new-farkas-CM-amendment-draft-CSD-v03.pdf> for a proposed *Standard for Local and metropolitan area networks – Time-Sensitive Networking for Fronthaul Amendment: Enhancements for Fronthaul Interface, Synchronization, and Synchronization Standards*.

**Disposition:** Continued in a later session.

Marc Holness, P802.1Qcx editor, led the resolution of comments received on <http://www.ieee802.org/1/files/private/cx-drafts/d0/802-1Qcx-d0-3.pdf>.

**Disposition:** Continued in a later session.

### Wednesday 12 September 2018

#### 8:00 AM (call to order by János Farkas) to 6:00 PM, with a 1-hour lunch break

János Farkas continued leading the review of the draft PAR

<http://www.ieee802.org/1/files/public/docs2018/new-farkas-CM-amendment-draft-PAR-v04.pdf>

and CSD <http://www.ieee802.org/1/files/public/docs2018/new-farkas-CM-amendment-draft-CSD-v03.pdf>

for a proposed *Standard for Local and metropolitan area networks – Time-Sensitive Networking for Fronthaul Amendment: Enhancements for Fronthaul Interface, Synchronization, and Syntonization Standards*.

**Disposition:** New PAR targeted for pre-circulation for consideration for approval at the November 2018 plenary meeting.

Mike Potts presented and led the review of the draft PAR

<http://www.ieee802.org/1/files/public/docs2018/new-potts-TSN-automotive-profile-PAR-0918-v04.pdf>

and CSD <http://www.ieee802.org/1/files/public/docs2018/new-potts-TSN-automotive-profile-CSD-0918-v02.pdf>

for a proposed *Time-Sensitive Networking Profile for Automotive In-Vehicle Ethernet Communications*.

**Disposition:** New PAR targeted for pre-circulation for consideration for approval at the November 2018 plenary meeting.

Tongtong Wang presented *Consideration on TSN for Service Provider Networks*

<http://www.ieee802.org/1/files/public/docs2018/new-wangtt-Consideration-on-TSN-for-Service-Provider-Networks-0918.pdf>.

**Disposition:** Proposed new project; more discussion needed.

Tongtong Wang presented and led the review of the draft PAR

<http://www.ieee802.org/1/files/public/docs2018/new-wangtt-TSN-for-service-provider-networks-PAR-0918-v04.pdf>

and CSD <http://www.ieee802.org/1/files/public/docs2018/new-wangtt-TSN-for-service-provider-networks-CSD-0918-v04.pdf>

for a proposed *Time-Sensitive Networking Profile for Service Provider Networks*.

**Disposition:** Continued in a later session.

Paul Unbehagen, P802.1Qcj editor, presented *802.1Qcj Update*

<http://www.ieee802.org/1/files/public/docs2018/cj-unbehagen-auto-attach-d3-update-0918.pdf>

and reviewed <http://www.ieee802.org/1/files/private/cj-drafts/d0/802-1Qcj-d0-3.pdf>.

**Disposition:** Editor's update on ongoing project.

Marc Holness, P802.1Qcx editor, presented *P802.1Qcx D0.3 Comment Resolution Hi-Lites*

<http://www.ieee802.org/1/files/public/docs2018/cx-holness-comment-summary-d0-3-0918-v01.pdf>

and continued the resolution of comments received on

<http://www.ieee802.org/1/files/private/cx-drafts/d0/802-1Qcx-d0-3.pdf>.

**Disposition:** Ballot disposition recorded in <http://www.ieee802.org/1/files/private/cx-drafts/d0/802-1Qcx-d0-3-dis-v01.pdf>.

Geoff Garner (Huawei), P802.1AS-Rev editor, continued the resolution of comments received on <http://www.ieee802.org/1/files/private/as-rev-drafts/d7/802-1AS-rev-d7-3.pdf>.

**Disposition:** Ballot disposition recorded in <http://www.ieee802.org/1/files/private/as-rev->

[drafts/d7/802-1AS-rev-d7-3-dis-v01.pdf](#).

### Thursday 13 September 2018

#### 8:00 AM (call to order by Stephen Haddock) to 1:00 PM

Stephen Haddock, P802.1AX-Rev editor, presented <http://www.ieee802.org/1/files/public/docs2018/ax-rev-haddock-editors-report-0918-v1.pdf> then led the resolution of comments received on <http://www.ieee802.org/1/files/private/ax-rev-drafts/d0/802-1AX-Rev2-d0-3.pdf>.

**Disposition:** Proposed ballot comment resolution recorded in <http://www.ieee802.org/1/files/private/ax-rev-drafts/d0/802-1AX-Rev-d0-3-pdis-v01.pdf>, updated post-meeting as <http://www.ieee802.org/1/files/private/ax-rev-drafts/d0/802-1AX-Rev-d0-3-dis-v01.pdf>.

Johannes Specht, P802.1Qcr editor, continued the resolution of comments received on <http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-D0-5.pdf>.

**Disposition:** Ballot comment resolution recorded in <http://www.ieee802.org/1/files/private/cr-drafts/d0/802-1Qcr-d0-5-dis-v00.pdf>.

Paul Congdon presented *Proposed Technical Approach Congestion Isolation* <http://www.ieee802.org/1/files/public/docs2018/cz-congdon-ci-approach-0918-v01.pdf>

**Disposition:** Proposed new project; more discussion needed.

#### 2:00 PM to 4:30 PM

Minutes of this session, a joint session of the TSN TG and IEC/IEEE 60802 Joint Project, are incorporated into these minutes by reference and are available at <http://www.ieee802.org/1/files/public/60802/2018-09-60802-meeting-v1.pdf>.

#### 4:30 PM to 6:00 PM

Christophe Mangin presented *802.1CBdb Generic Mask & Match stream identification function* <http://www.ieee802.org/1/files/public/docs2018/db-mangin-generic-mm-stream-identification-0918-v01.pdf>.

**Disposition:** Editor's update on existing project.

Astrit Ademaj presented *802.1Qcc findings* <http://www.ieee802.org/1/files/public/docs2018/cc-ademaj-QccFindings-0918-v02.pdf>.

**Disposition:** Related to existing project; more discussion needed.

### Friday 14 September 2018

#### 8:00 AM (call to order by János Farkas) to 12:42 PM

David Hellmanns presented *NeSTiNg A Network Simulator for Time-sensitive Networking* <http://www.ieee802.org/1/files/public/docs2018/new-hellmanns-tsn-simulator-0918-v03.pdf>.

**Disposition:** For information only.

Hajime Koto presented *IEEE 802.1 Interim meeting Hiroshima, Japan January 14.-18.(Mon-Fri), 2019* <http://www.ieee802.org/1/files/public/docs2018/admin-koto-Hiroshima-interim-0918-v00.pdf>.

**Disposition:** For information only.

Feng Chen presented *RAP/LRP Interactions using LRP Service Primitives*  
<http://www.ieee802.org/1/files/public/docs2018/cs-chen-RAP-LRP-interaction-0918-v01.pdf>.

**Disposition:** Related to existing project; more discussion needed.

Norman Finn, P802.1CS editor, presented *IEEE P802.1CS Link-local Registration Protocol Draft 1.6 introduction* <http://www.ieee802.org/1/files/public/docs2018/cs-finn-D1-6-introduction-0918-v02.pdf> and reviewed <http://www.ieee802.org/1/files/private/cs-drafts/d1/802-1CS-d1-6.pdf>.

**Disposition:** Editor's update on existing project.

Norman Finn, P802.1DC editor, presented *Introduction to Draft 0.1 of IEEE P802.1DC Quality of Service Provision by Network Systems* <http://www.ieee802.org/1/files/public/docs2018/dc-finn-D0-1-introduction-0918-v01.pdf>.

**Disposition:** Editor's update on existing project.

Don Pannell gave an oral update on P802.3cg.

János Farkas reopened the review of the draft PAR <http://www.ieee802.org/1/files/public/docs2018/new-wangtt-TSN-for-service-provider-networks-PAR-0918-v04.pdf> and CSD <http://www.ieee802.org/1/files/public/docs2018/new-wangtt-TSN-for-service-provider-networks-CSD-0918-v04.pdf> for a proposed *Time-Sensitive Networking Profile for Service Provider Networks*

**Disposition:** New PAR targeted for pre-circulation for consideration for approval at the November 2018 plenary meeting.

## 4 IEC/IEEE 60802 Joint Project

The IEC/IEEE 60802 Joint Project meeting minutes are incorporated into these minutes by reference and are available at <http://www.ieee802.org/1/files/public/60802/2018-09-60802-meeting-v1.pdf>.

## 5 NEND ICA

The NEND ICA meeting minutes are incorporated into these minutes by reference and are available at <https://mentor.ieee.org/802.1/dcn/18/1-18-0057-00-ICne.docx>.

## 6 YANGsters

The YANGsters meeting minutes are incorporated into these minutes by reference and are available at <http://www.ieee802.org/1/files/public/docs2018/yangsters-smansfield-oslo-minutes-0918-v01.pdf>.

## 7 Next meeting

12-15 November 2018, Bangkok, Thailand