

# DetNet – TSN Workshop

The Time-Sensitive Networking (TSN) Task Group Chair and IETF DetNet co-chair, János Farkas, and the IETF DetNet co-chair, Lou Berger, presided. Craig Gunther wrote the minutes.

**Sunday 11 November 2018**

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

Attendance:

<b>Last Name</b>	<b>First Name</b>	<b>Affiliation</b>
Andersdotter	Amelia	Article19
Bagdonas	Ignas	Equinix
Berger	Louis	LabN Consulting, L.L.C.
Bierschenk	Jens	Robert Bosch GmbH
Black	David	Dell
Boiger	Christian	b-plus GmbH
Bormann	Carsten	Universitat Bremen TZI
Bottorff	Paul	Hewlett-Packard Development Company, L.P.
Brungard	Deborah	AT&T
Bryant	Stewart	Huawei R&D USA
Canchi	Radhakrishna	Kyocera International Inc.
Chang	Xin	Huawei Technologies Co. Ltd
Chen	David	Nokia
Chen	Feng	Siemens AG
Chen	Lihao	Huawei Technologies Co. Ltd
Cheung	Taesik	Electronics and Telecommunications Research Institute (ETRI)
Congdon	Paul	Tallac Networks; Huawei
Cummings	Rodney	National Instruments Corporation
Das	Subir	Applied Communication Sciences
Dorr	Josef	Siemens AG
Elbakoury	Hesham	Huawei Technologies Co. Ltd
Enzinger	Thomas	B&R Industrial Automation
Farkas	Janos	Ericsson
Finn	Norman	Huawei Technologies Co. Ltd
Garner	Geoffrey	Huawei Technologies Co. Ltd
Geng	Xuesong	HUAWEI
Godfrey	Tim	Electric Power Research Institute, Inc. (EPRI)
Grossman	Ethan	Dolby Laboratories
Gunther	Craig	Craig Gunther Consulting, LLC
Gutierrez	Marina	TTTech Computertechnik AG
Haddock	Stephen	Stephen Haddock Consulting, LLC
Hamilton	Mark	Ruckus Wireless
Hantel	Mark	Rockwell Automation
Hemmer	David	PILZ
Henry	Jerome	Cisco Systems, Inc.
Joung	Jinoo	Sangmyung Univ.
Kabra	Lokesh	Synopsys, Inc.

Karl	Michael	Marvell Semiconductor, Inc.
Kehrer	Stephan	Hirschmann Automation and Control, Inc.
Kim	Ryangsoo	ETRI
Kim	Yongbum	Broadcom Corporation
Koga	Hidetsugu	YASKAWA ELECTRIC CORPRATION
Kondo	Kenji	Yaskawa Electric Corp
Lee	Hyeong Ho	Netvision Telecom
Lopez	Miguel	Ericsson AB
Malis	Andrew	Huawei R&D USA
Mangin	Christophe	Mitsubishi Electric Corporation
Mansfield	Scott	Telefon AB LM Ericsson
Marks	Roger	EthAirNet Associates; Huawei
Messenger	John	ADVA Optical Networking Ltd.
Mizrahi	Tal	Marvell Semiconductor, Inc.
Ohba	Yoshihiro	Toshiba Memory Corporation
Parsons	Glenn	Ericsson AB
Regev	Alon	Keysight Technologies
Rouyer	Jessy	Nokia
Sato	Atsushi	Yokogawa Electric Corporation
Seaman	Michael	Individual
Seewald	Maik	Cisco Systems, Inc.
Soeda	Tatsuo	Yaskawa
Specht	Johannes	University of Duisburg-Essen and General Motors Company
Stanica	Marius	ABB AB
Steindl	Guenther	Siemens AG
Sundman	Dennis	Ericsson AB
Takahara	Tomoo	FUJITSU LABORATORIES LIMITED
Thompson	Geoffrey	GraCaSI S.A.
Thubert	Pascal	Cisco Systems, Inc.
Tochio	Yuji	Fujitsu Labs. Ltd.
Varga	Balazs	Ericsson AB
Wamsser	Reiner	IEC SC65C MT9-Member
Wang	Hao	Fujitsu Research & Development Center
Wang	Tongtong	Huawei Technologies Co. Ltd
Wang	Xinyuan	Huawei Technologies Co. Ltd
Wei	Yuehua	ZTE Corporation
Winkel	Ludwig	Siemens AG
Woods	Jordon	Analog Devices Inc.
Xu	Dayin	Rockwell Automation
Yamaura	Takahiro	TOSHIBA Corporation
Yoo	Hark	Electronics and Telecommunications Research Institute (ETRI)
Yu	Yi	Rockwell Automation
Zein	Nader	NEC Europe (NLE)
Zhang	Jiayi	Huawei Technologies Co. Ltd
Zhang	Xingxin	Huawei Technologies Co., Ltd
Zinner	Helge	Continental Automotive Systems AG

János Farkas and Lou Berger co-presented *DetNet – TSN Workshop*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-farkas-intro-1118-v01.pdf>.

János Farkas called for any members of the press (i.e., anyone reporting publicly on this meeting) to announce their presence.

- There were no responses to the call.

János Farkas presented *Guidelines for IEEE-SA Meetings*

<https://development.standards.ieee.org/myproject/Public/mytools/mob/preparslides.pdf> and *Participation in IEEE 802 Meetings* <https://mentor.ieee.org/802-ec/dcn/17/ec-17-0093-05-0PNP-ieee-802-participation-slide-ppt.ppt>.

János Farkas reviewed the agenda <https://1.ieee802.org/november-2018-plenary-meeting-in-bangkok-thailand-tsn-tg-agenda/>.

János Farkas presented *IEEE 802.1 Time-Sensitive Networking (TSN) Task Group (TG) Overview* <http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-farkas-tsn-overview-1118-v01.pdf>.

Lou Berger presented *IETF DetNet Working Group Overview*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-berger-detnet-overview-1118-v03.pdf>.

János Farkas presented *TSN Basic Concepts*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-farkas-tsn-basic-concepts-1118-v01.pdf>.

Balázs Varga presented *DetNet Basic concept and Services*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-varga-detnet-basic-concepts-1118-v01.pdf>.

Norman Finn presented *Flow Definition and Identification, QoS Service definition and*

*parameters TSN* <http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-finn-tsn-stream-identification-1118-v02.pdf>.

Balázs Varga presented *DetNet Flow Definition and Identification, Features and Mapping*

*to/from TSN* <http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-varga-detnet-details-1118-v01.pdf>.

Norman Finn presented *DetNet/TSN Flow/QoS mapping between DetNet and TSN*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-finn-mapping-1118-v01.pdf>.

Feng Chen, Norman Finn, and Rodney Cummings presented *IEEE 802.1 TSN MSRP, LRP,*

*RAP, and YANG* <http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-finn-srp-lrp-rap-yang-1118-v01.pdf>.

Lou Berger presented *DetNet Control Plane Possible Future*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-berger-detnet-control-plane-1118-v02.pdf>.

Mach Chen presented *YANG-based Control for DetNet*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-chen-detnet-yang-1118-v01.pdf>.

Tal Mizrahi presented *Security Considerations in DetNet / TSN*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-mizrahi-security-1118-v01.pdf>.

Ethan Grossman presented *DetNet Use Cases Overview*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-grossman-detnet-use-cases-1118-v01.pdf>.

Ludwig Winkel presented *IEC/IEEE 60802 TSN Profile for Industrial Automation*

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-winkel-60802-overview-1118-v01.pdf>.

Maik Seewald presented IEC TR 61850-90-13 Deterministic Networking in Power Automation

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-seewald-intro-to-iec-61850-90-13-1118-v01.pdf>.

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

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-wang-for-service-provider-networks-1118-v02.pdf>.

Lou Berger presented *Key Takeaways and Next Steps*, which is the last slide of

<http://www.ieee802.org/1/files/public/docs2018/detnet-tsn-farkas-chairs-intro-1118-v03.pdf>.