

DetNet – TSN Workshop

November 11, 2018

Bangkok, Thailand

DetNet WG

- Chairs:
 - Lou Berger lberger@labn.net
 - János Farkas
janos.farkas@ericsson.com
- Secretary:
 - Ethan Grossman eagros@dolby.com
- Web site:
 - <https://datatracker.ietf.org/wg/detnet/>
- Workshop online agenda and slides:

TSN TG

- Chair:
 - János Farkas
janos.farkas@ericsson.com
- Secretary:
 - Craig Gunther
craiggunther@yahoo.com
- Web site:
 - <http://ieee802.org/1/tsn>

Live: http://ieee802.org/1/tsn/tsn-task-group-agenda/#Sunday_DetNet_8211_TSN_joint_session

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

Logistics

- Lunch is included: [Sala Thai Ballroom](#)
- WiFi
 - SSID: IEEE802
 - Password: ieeeeeee

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- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
 - Don't discuss the interpretation, validity, or essentiality of patents/patent claims.
 - Don't discuss specific license rates, terms, or conditions.
 - Relative costs of different technical approaches that include relative costs of patent licensing terms may be discussed in standards development meetings.
 - Technical considerations remain the primary focus
 - Don't discuss or engage in the fixing of product prices, allocation of customers, or division of sales markets.
 - Don't discuss the status or substance of ongoing or threatened litigation.
 - Don't be silent if inappropriate topics are discussed ... do formally object.

For more details, see *IEEE-SA Standards Board Operations Manual*, clause 5.3.10 and *Antitrust and Competition Policy: What You Need to Know* at <http://standards.ieee.org/develop/policies/antitrust.pdf>

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Participation in IEEE 802 Meetings

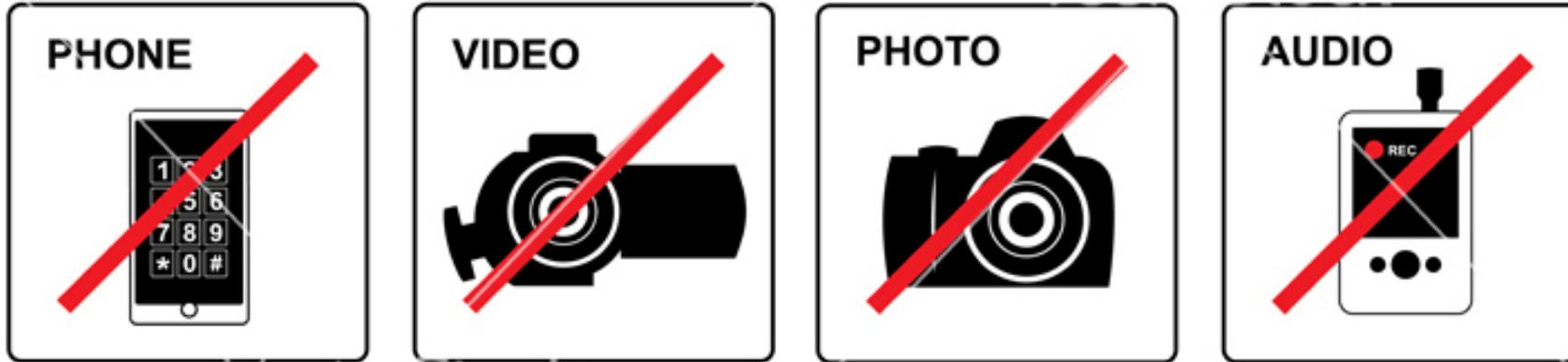
Participation in any IEEE 802 meeting (Sponsor, Sponsor subgroup, Working Group, Working Group subgroup, etc.) is on an individual basis

- **Participants in the IEEE standards development individual process shall act based on their qualifications and experience. (https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1)**
- **IEEE 802 Working Group membership is by individual; “Working Group members shall participate in the consensus process in a manner consistent with their professional expert opinion as individuals, and not as organizational representatives”. (subclause 4.2.1 “Establishment”, of the IEEE 802 LMSC Working Group Policies and Procedures)**
- **Participants have an obligation to act and vote as an individual and not under the direction of any other individual or group. A Participant’s obligation to act and vote as an individual applies in all cases, regardless of any external commitments, agreements, contracts, or orders.**
- **Participants shall not direct the actions or votes of any other member of an IEEE 802 Working Group or retaliate against any other member for their actions or votes within IEEE 802 Working Group meetings, see https://standards.ieee.org/develop/policies/bylaws/sb_bylaws.pdf section 5.2.1.3 and the IEEE 802 LMSC Working Group Policies and Procedures, subclause 3.4.1 “Chair”, list item x.**

By participating in IEEE 802 meetings, you accept these requirements. If you do not agree to these policies then you shall not participate.

(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

Decorum



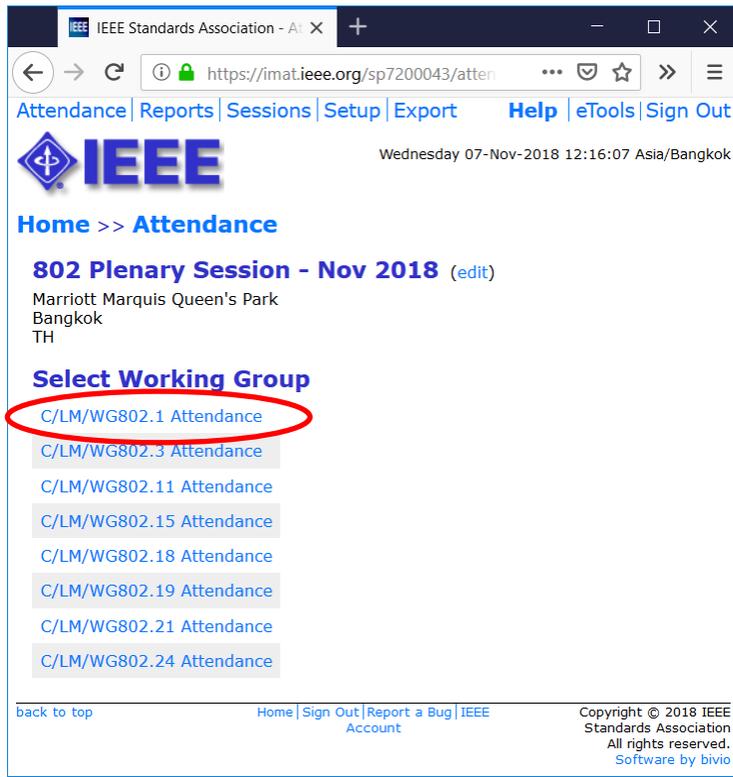
- Press (i.e., anyone reporting publicly on this meeting) are to announce their presence (SASB Ops Manual 5.3.3.5)
- Photography or recording by permission only (SASB Ops Manual 5.3.3.4)
- Cell phone ringers off please

Security Issues

- **PCs HAVE BEEN STOLEN** at previous IEEE 802 meetings
- **DO NOT** assume that meeting areas are secure

Register your attendance please!

- Must be on the IEEE 802 WLAN: SSID: IEEE802 ; PWD: ieeeieee
- <https://imat.ieee.org>
- 802 Plenary Session - Nov 2018
C/LM/WG802.1 Attendance --> SUN 11-Nov-2018



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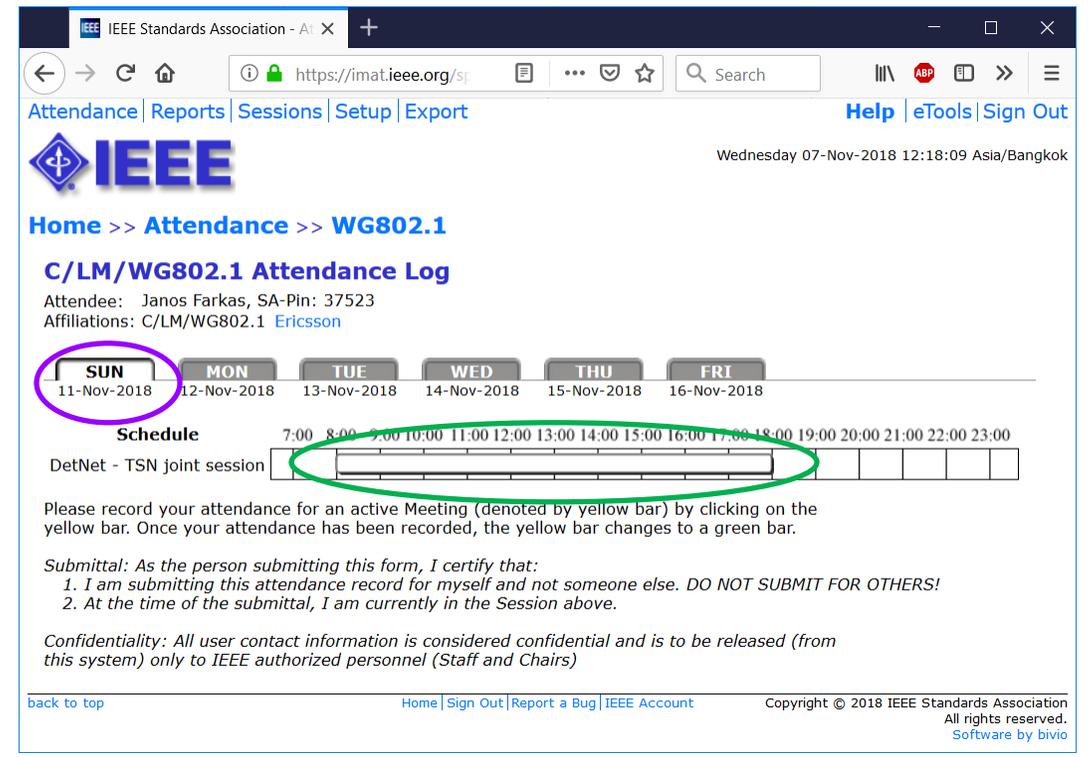
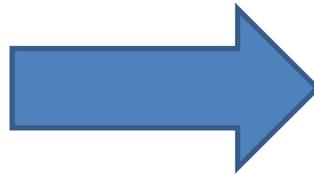
802 Plenary Session - Nov 2018 (edit)

Marriott Marquis Queen's Park
Bangkok
TH

Select Working Group

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C/LM/WG802.1 Attendance Log

Attendee: Janos Farkas, SA-Pin: 37523
Affiliations: C/LM/WG802.1 Ericsson

SUN	MON	TUE	WED	THU	FRI
11-Nov-2018	12-Nov-2018	13-Nov-2018	14-Nov-2018	15-Nov-2018	16-Nov-2018

Schedule

7:00	8:00	9:00	10:00	11:00	12:00	13:00	14:00	15:00	16:00	17:00	18:00	19:00	20:00	21:00	22:00	23:00

DetNet - TSN joint session

Please record your attendance for an active Meeting (denoted by yellow bar) by clicking on the yellow bar. Once your attendance has been recorded, the yellow bar changes to a green bar.

Submittal: As the person submitting this form, I certify that:

1. I am submitting this attendance record for myself and not someone else. DO NOT SUBMIT FOR OTHERS!
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Meeting Objectives

- Discuss topics related to interactions between a DetNet layer and a TSN layer
- Ultimate goal:
Architecture for TSN and DetNet fully aligned
 - Maximizing alignment and compatibility between TSN and DetNet success of the technologies
 - Minimize duplication of work and mechanisms

Current Scope of Work

TSN TG

- Responsible for TSN technology and profiles

Defines:

- Base technology:
 - Data plane: Stream ID and traffic/QoS mechanisms
 - Control plane
- Configuration and Management
 - YANG for base technology
- Profiles
 - Architecture
 - TSN service definition
 - Applicability to specific use cases

DetNet WG

- Responsible for DetNet service delivery over routed topologies

Defines:

- Architecture
- Service model
- Routed data plane
 - IP and MPLS: flow ID, forwarding and traffic treatment requirements
 - Mapping to TSN
 - TSN as sublayer
 - Interconnected TSN domains
 - L2VPN-style (TSN over MPLS)
- Configuration and Management
 - YANG for service and routed data plane
- FFS: Control plane

Alignment of Work

- TSN TG: Responsible for TSN technology and profiles
- DetNet WG: Responsible for DetNet service delivery over routed topologies
- **Important objective:**
 - Aim is to minimize duplication of mechanisms while meeting these objectives:
 - **DetNet can operate over different subnetwork technologies – TSN is first**
 - **TSN can operate without DetNet**
 - Some redundancy is necessitated by objectives
- Areas to be aligned:
 - Mapping of DetNet Flows to TSN Streams
 - Identifiers and service
 - Configuration and Management
 - Standalone YANG models with appropriate linkages
 - Both sets of models must be able to operate when the other is not present
 - When both used, should avoid duplication of configuration and operational information
 - » Expectation is that DetNet modules will reference TSN models for subnetwork specific information