

# DetNet – TSN Workshop

November 11, 2018  
Bangkok, Thailand

## DetNet WG

- Chairs:
  - Lou Berger [lberger@labn.net](mailto:lberger@labn.net)
  - János Farkas  
[janos.farkas@ericsson.com](mailto:janos.farkas@ericsson.com)
- Secretary:
  - Ethan Grossman [eagros@dolby.com](mailto: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](mailto:janos.farkas@ericsson.com)
- Secretary:
  - Craig Gunther  
[craiggunther@yahoo.com](mailto: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](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
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# Guidelines for IEEE-SA Meetings

- All IEEE-SA standards meetings shall be conducted in compliance with all applicable laws, including antitrust and competition laws.
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  - Don't discuss the status or substance of ongoing or threatened litigation.
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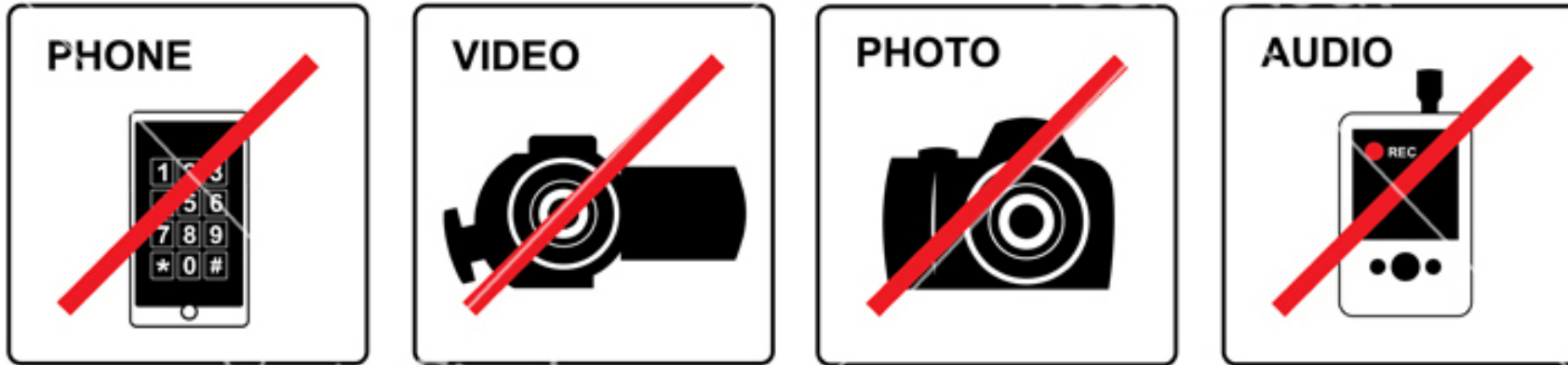
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(Latest revision of IEEE 802 LMSC Working Group Policies and Procedures: <http://www.ieee802.org/devdocs.shtml>)

# 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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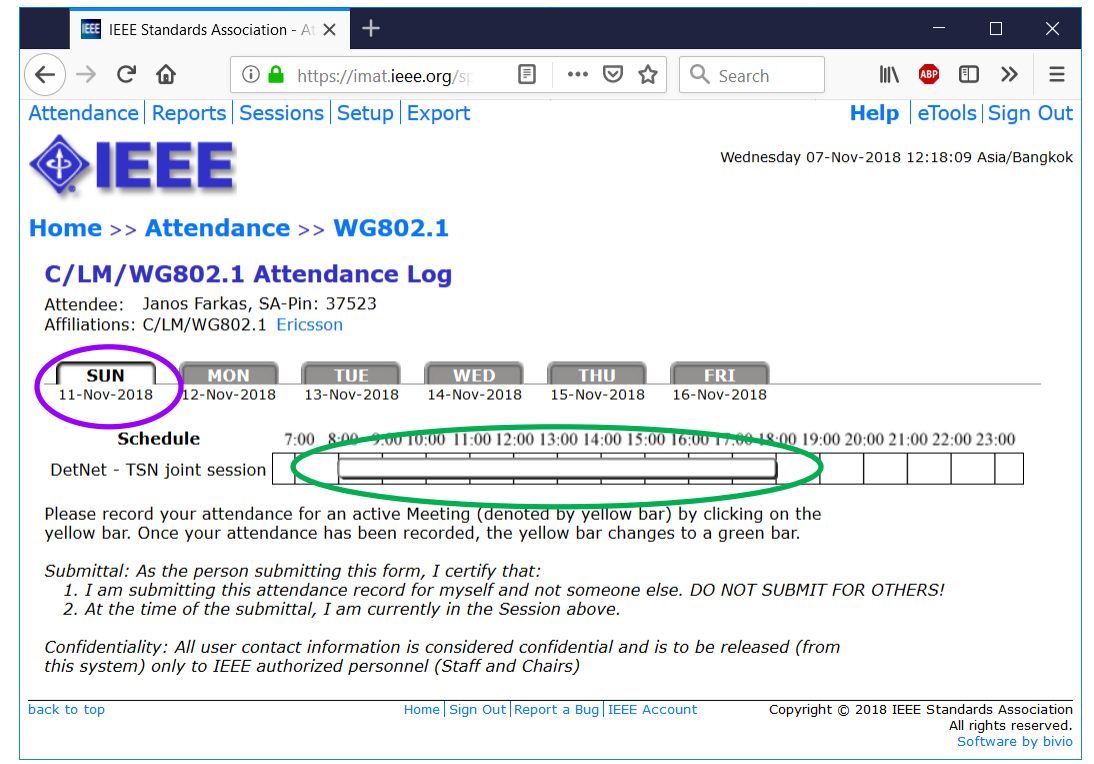
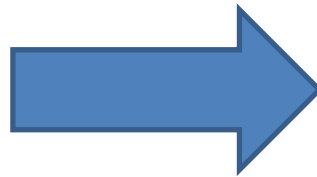
**802 Plenary Session - Nov 2018** (edit)

Marriott Marquis Queen's Park  
Bangkok  
TH

**Select Working Group**

- C/LM/WG802.1 Attendance**
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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.

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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