

**Minutes of the Task Force (TF)  
 “Interspersing Express Traffic” (IET)  
 2014/11/05; 2014/11/06**

Attendance

1st Name	Name	Employer	Affiliation	5. ; am/pm	6. ; am/-
Amerik	Bains	Cisco	Cisco	1/-	1/-
Denis	Beaudoin	Texas Instruments	Texas Instruments	1/-	1/-
David	Chen	Nokia Solutions and Networks	Nokia Solutions and Networks	1/-	1/-
Dave	Estes	Spirent	Spirent	1/-	1/-
Peter	Jones	Cisco	Cisco	1/-	1/-
Young	Kim	Broadcom	Broadcom	1/-	1/-
Alon	Regev	IXIA	IXIA	1/-	1/-
Pat	Thaler	Broadcom	Broadcom	1/-	1/-
Albert	Tretter	Siemens AG	Siemens AG	1/-	1/-
Ludwig	Winkel	Siemens AG	Siemens AG	1/-	1/-

**Wednesday, November 5th 2014**

**1 Appointment of Recording Secretary**

Albert offered to act as recording secretary.

**2 Welcome and Introductions**

Ludwig opened the meeting and welcomed the experts.

**3 Approve Agenda**

Ludwig presented the agenda.

The agenda was approved as proposed.

#### **4 IEEE 802.3 templates and ground rules**

Ludwig presented the boilerplate items like:

- Structure, Bylaws and Rules
- IEEE Standards Process
- Ground Rules
- Instruction for the WG Chair
- Participants, Patents, and Duty to Inform
- Patent Related Links
- ...

Ludwig called for disclosing Potentially Essential Patents

- Nobody provided any information about patents

#### **5 Approval of the meeting minutes from the last meeting 9/2014 (Ottawa)**

##### **5.1 Motion #1**

Accept the 802.3br September 2014 Ottawa meeting minutes without changes.

Moved by: Pat Thaler

Seconded by: David Chen

No Comments

The motion has been approved unanimously.

#### **6 Presentations & Discussions**

The Editor Pat Thaler presented the IEEE Draft P802.3br D0.7 27 October 2014.

Some notes and comments were discussed.

The Editor Pat Thaler will update the draft.

#### **7 Next steps**

##### **7.1 Motion #2**

Adopt the editor's draft D0.7 with edits from this meeting as the basis of TF draft D1.0.

Moved by: Pat Thaler

Seconded by: David Chen

No Comments

The motion has been approved unanimously.

### **7.2 Motion #3**

Authorize the TF to initiate the at least 30 day TF review D1.0 and include 802.1 in the review.

The review ends at 1st January 2015.

Moved by: Albert Tretter

Seconded by: Alon Regev

No Comments

The motion has been approved unanimously.

### **7.3 Motion #4**

Authorize circulation of the draft resulting from the TF review to 802.3 for preview in preparation for approval to start WG ballot at the March meeting 2015 in accordance to the 802.3 Operations Manual 2.8.2.

Moved by: Pat Thaler

Seconded by: Alon Regev

No Comments

Approved unanimously

## **8 Preparation of the Slides for the Closing Plenary**

The Chair went through the slides for the Closing Plenary.

The Chair recessed the meeting at 12:15pm until November 6<sup>th</sup>, 2014 10:00am for the joint meeting with the 802.1 TSN group.

## **9 Joint session with 802.1 TSN**

November 6<sup>th</sup>, 2014 (Thursday) AM

Ludwig and Michael opened the joint meeting at 10:00am.

About 30 people in the room. Attendance of the .1 people see minutes of IEEE 802.1TSN.

The updated draft will be available at the 802.3 and also the 802.1 private area.

For comments the official tools shall be used.

The review will start at beginning of December and lasts at least 30 days

The review ends at 1st January 2015.

Michael and Ludwig indicated that in the future the joint sessions between 802.3 IET and 802.1 TSN will always be scheduled on Thursday morning.

### **9.1 Walk through the 802.3br draft D0.7**

The Editor Pat Thaler went through the 802.3br Draft D0.7.

The following list of issues was discussed during the joint session:

#1 Initial frame size of preempted frames

#2 TSSI interface

#3 MACsec consistency

#### Issue #1: Initial frame size of preempted frames

There has been a suggestion to allow for a receiver to request a larger minimum fragment size in multiple of 64 bytes.

Result:

A three bit parameter will be added indicating the size as a multiple of 64

#### Issue #2: TSSI interface

There might be an ambiguity of whether a TimeSync indication was due to an express or preemptable frame. To resolve that, one of the following is needed:

- two TSSIs, one for each MAC,
- an optional parameter indicating express or preemptable added to the TSSI primitives in Clause 90, or
- an additional value such as P\_DETECTED should be added for the SFD parameter]

Result:

An optional parameter indicating express or preemptable will be added to the TSSI primitives in Clause 90.

### Issue #3: MACsec consistency

Impact of preemption to MACsec, consistency issues needs to be worked out.

Result:

IEEE 802.1TSN people should talk to the IEEE 802.1 MACSec experts and clarify the issue. From the IET TF standpoint security is not an 802.3br issue.

## **9.2 Tutorial**

Ludwig asked for support for a tutorial at the March Plenary meeting 2015.

The group was in favor for a tutorial, so Ludwig will ask for a time slot at the closing plenary.

The list of volunteers was updated with people who are willing to review and present the tutorial. Ludwig was authorized to draft the Tutorial request on behalf of the both groups (IET + TSN). The result is given in the Annex A.

NOTE: After the meeting, 2014-11-18, Mike and Ludwig were informed that IEEE 802 SEC excepted our request and assigned to us the 1st slot at Monday 6:00-7:30 PM.

## **10 Adjournment**

The meeting was adjourned at 11:00am.

## Annex A

### Tutorial request form

The following form was finalized after the adjournment of the IEEE 802.br session. The IEEE 802 Executive Secretary informed the convenors at 2014-11-18 that the request was approved and assigned to the Tutorial#1 slot at the Berlin session Tuesday evening. The rules for a tutorial say that we should provide the slides Friday before the Berlin meeting.

The following text is the Tutorial request form as forwarded to the [STDS-802-SEC@listserv.ieee.org](mailto:STDS-802-SEC@listserv.ieee.org) on behalf of David Law and Glenn Parsons.

Note: The affiliation of Christian and the email address of Helge were corrected in this presentation to avoid future confusions.

### IEEE 802 LMSC OFFICIAL TUTORIAL REQUEST FORM

**TUTORIAL SPONSOR (WG Chair):** David Law, Glenn Parsen

- **DATE SUBMITTED:** 2014-11-06
- **Requester Name:** Ludwig Winkel, Michael D. Johas Teener
- **Requestor Email:** [Ludwig.winkel@siemens.com](mailto:Ludwig.winkel@siemens.com), [mike@JOHASTEENER.COM](mailto:mike@JOHASTEENER.COM)

**1. TITLE OF TUTORIAL:** Real-time Ethernet on IEEE 802.3 Networks

**2. NAME OF PRESENTERS, THEIR AFFILIATIONS AND CONTACT INFO:**

Presenter(s) Name:	Affiliation:	Email Address:
Ludwig Winkel	Siemens	<a href="mailto:Ludwig.Winkel@Siemens.com">Ludwig.Winkel@Siemens.com</a>
Michael Johas-Teener	Broadcom	<a href="mailto:mike@JOHASTEENER.COM">mike@JOHASTEENER.COM</a>
Albert Tretter	Siemens	<a href="mailto:albert.tretter@siemens.com">albert.tretter@siemens.com</a>
Stephan Kehrer	Hirschmann (Belden)	<a href="mailto:Stephan.Kehrer@belden.com">Stephan.Kehrer@belden.com</a>
Christian Boiger	b-plus GmbH	<a href="mailto:christian.boiger@b-plus.com">christian.boiger@b-plus.com</a>
Pat Thaler	Broadcom	<a href="mailto:pthaler@broadcom.com">pthaler@broadcom.com</a>
Norm Finn	Cisco	<a href="mailto:nfinn@CISCO.COM">nfinn@CISCO.COM</a>
David Brandt	Rockwell Automation	<a href="mailto:dbrandt@ra.rockwell.com">dbrandt@ra.rockwell.com</a>
Helge Zinner	Bosch	<a href="mailto:Helge.Zinner@de.bosch.com">Helge.Zinner@de.bosch.com</a>

**3. ABSTRACT: (a brief paragraph describing content of the presentation)**

There have been multiple networks based on propriety technology or specialized standards developed to support carrying highly time sensitive traffic for applications such industrial automation and automotive control. Some of these are modified Ethernet networks. The efforts in IEEE 802.1 Time Sensitive Networking and P802.3br Interspersing Express Traffic provide an example of bringing together the requirements of those applications to provide a standard network that can support traffic requiring deterministic delivery time for real-time

communication along with traditional traffic. This tutorial will cover the fundamentals of the projects and how they work together to fulfill the requirements of the various verticals.

**4. ALLOCATED DAYS AND TIMES: (Please indicate your 1<sup>st</sup> and 2<sup>nd</sup> choices below. All tutorials are scheduled on a first come first basis).**

Session	Day	Time	Preference Ranking	Notes
Tutorial #1	Monday	6:00-7:30 PM	1	
Tutorial #2	Monday	7:30-9:00 PM	2	
Tutorial #3	Monday	9:00-10:30 PM	3	
Other*				Must be approved by 802 EC

**5. DEADLINE DATE:**

All official tutorial request forms must be submitted no later than 45 days in advance of the Plenary Session.

**6. CONFIRMATION OF SUBMISSION:**

All official requests must be sent to Paul Nikolich at [p.nikolich@ieee.org](mailto:p.nikolich@ieee.org) and Jon Rosdahl [jrosdahl@ieee.org](mailto:jrosdahl@ieee.org). A confirmation of your request will be sent within 10 days of your submission.

Please also copy the following persons John D'Ambrosia at [jdambrosia@ieee.org](mailto:jdambrosia@ieee.org), Dawn Slykhouse at [dawns@facetoface-events.com](mailto:dawns@facetoface-events.com) and Lisa Ronmark at [lisa@facetoface-events.com](mailto:lisa@facetoface-events.com).

**7. APPROVAL OR REJECTION OF TUTORIAL REQUEST:**

IEEE 802 Executive Secretary Jon Rosdahl ([jrosdahl@ieee.org](mailto:jrosdahl@ieee.org)) will correspond to confirm if your request has been approved or rejected.

**8. SCHEDULE:**

Approved Tutorial Requests will be assigned a time slot based on the order in which they were received. The Final Tutorial Schedule will be posted at <http://802world.org/plenary> and <http://ieee802.org> no less than 14 days in advance of the Plenary Session.