

**Minutes of the Task Force (TF)
 “Interspersing Express Traffic” (IET)
 2014/09/09, 2014/09/10, 2014/09/11**

Attendance

1st Name	Name	Employer	Affiliation	9. ; am/pm	10. ; am/-
Albert	Tretter	Siemens AG	Siemens AG	1/-	1/-
Alon	Regev	IXIA	IXIA	1/-	1/-
Christian	Boiger	b-plus	b-plus	1/-	-/-
Christophe	Mangin	Mitshubishi Electric	Mitshubishi Electric	1/-	-/-
David	Chen	Nokia Solutions and Networks	Nokia Solutions and Networks	1/-	1/-
Helge	Zinner	Continental	Continental	1/-	-/-
Kevin	Noll	Time Warner Cable	Time Warner Cable	1/-	-/-
Lokesh	Kabra	Synopsys	Synopsys	1/-	1/-
Ludwig	Winkel	Siemens AG	Siemens AG	1/-	1/-
Marek	Hajduczenia	Bright House Networks	Bright House Networks	1/-	1/-
Med	Belhadj	Feneck	Precise-ITC	-/-	1/-
Pat	Thaler	Broadcom	Broadcom	1/-	1/-
Peter	Jones	Cisco	Cisco	1/-	-/-
Young	Kim	Broadcom	Broadcom	1/-	-/-

Tuesday, September 9th 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 5/2014 (San Diego)

The 802.3br July 2014 San Diego meeting minutes were approved unanimously without changes.

6 Presentations & Discussions

A joint session with 802.1 TSN at 9:00am on September 11th has been agreed by the Chair Ludwig Winkel and the 802.1 TSN Chair Michael Johas Teener to provide 802.3br updates to the TSN group and to discuss the following issues:

- (1) IET Management Relationships
- (2) Time Synchronization Service Interface

Presentation #1: IET Managed Objects (Pat)

Pat presented the actual model of the IET Management Object Relationships.

Marek expressed his concerns about the presented model: "There is no need to represent separately eMAC and pMAC, since they are the same as far as their model is concerned. It is the same problem as with a single device that can support multi-rate PHY – the model allows for it, but we do not show it explicitly."

It was decided to present this model for discussion at the joint meeting with the TSN group on Tuesday 11th.

Presentation #2: Preamble Format for IET (Marek)

Marek presented his proposal.

The proposal suggested reusing EPON-style preamble to carry IET information.

The feedback was that we keep the existing format for non EPON.

There was consensus that for EPON the IET information should be placed in the EPON preamble.

It will be put an editor's note in the draft about where EPON would integrate in the MAC Merge.

EPON will not be part of the draft D1 based on the IET time line.

We expect that EPON will be an additional project when 802.3br is finished.

Independent of the Presentation #2 there was the following discussion:

For the TS Client Interface (802.3 - 2012; 90.4.1.1)

- We need to be able to differentiate between time sync indication for the preemptable and express path.
- The MAC Merge produces the primitives for TS Client Interface.

Presentation #3: The MAC Merge could wait forever if no final frame is received (Alon)

The issue was discussed and it was decided that ever body should think about the options and the need of such a timeout.

It was agreed that this issue will be discussed once more on September 10th, 2014.

The Chair recessed the meeting at 12:00am until September 10th, 2014, 9:00am.

Wednesday, September 10th 2014

Start the meeting at 9:00am.

7 Discussion about the Timeout issue

See also Presentation #3 on September 9th 2014.

The group decided that a timeout is not necessary and will therefore not be added.

8 Discussion of the IET Managed Objects model

The IET Managed Objects model will be updated till the joint meeting with 802.1 TSN group on Thursday September 11th 2014 based on discussions with experts in the area.

The discussion will be continued at the joint meeting

9 Review of 802.3br Timeline

Ludwig showed the previous timeline, agreed on the January 2014 meeting in Indian Wells.

To proceed we need an updated 802.3br draft for review.

Pat will provide an updated draft till 3rd October 2014.

The timeline slide was updated accordingly by Ludwig.

10 Ad hoc meetings as Telcons

Ad hoc telcos will be initiated to work on the draft.

- 1st telco: September 23th 2014 at 9:00am PST (US); (6:00pm CET)
- 2nd telco: October 2nd 2014 at 8:00am PST (US); (5:00pm CET).

11 Review contributions for 802.3br

Review contributions for the 802.3br draft should be made as pdf comments.

The Chair recessed the meeting at 12:00am until September 11th, 2014 at 9:00am for the joint meeting with 802.1 TSN group.

Thursday, September 11th 2014

The joint meeting started at 9:45am.

About 30 people in the room.

Presentation #5 Alternative for IET Management Relationships (Pat)

Pat presented the IET Management Relationships model for 802.3br.

Discussion about the chosen approach.

Pat will talk to Howard Frazier to fix the model.

Peter Jones also offered support on that topic.

Presentation: #6 Signaled Minimum Fragment Size for IET (Don, Peter)

Don and Peter presented the slides.

The group agreed to add the requested feature to 802.3br (During negotiation phase the receiver can ask the transmitter to increase the frame size).

Pat will add the feature to the next draft of 802.3br.

Presentation: #7 Time Synchronization Service Interface and Preemption (Christian)

Christian presented the slides.

Two alternatives were discussed:

- (a) provide a Time Synchronization Service Interface for each MAC (eMAC & pMAC)
- (b) add a parameter to the existing Time Synchronization Service Interface to indicate the related MAC (eMAC or pMAC)

The group decided to add a parameter to the existing Time Synchronization Service Interface to indicate the source (pMAC or eMAC) of the time stamp.

Background: Only one indication can occur at a certain time.

12 Next Steps

Ludwig informed the joint group about the planned telcos and the timeline for the updated draft.

The comment resolution of the next 802.3br draft should be done in a joint meeting with the 802.1 TSN group.

Therefore also a joint meeting with the 802.1 TSN group will be scheduled at the next meeting in November 2014.

13 Adjournment

Ludwig adjourned the IET TF meeting at 11:15am.