Minutes of the Task Force (TF)
"Interspersing Express *Traffic*" (IET)
2014-07-16, -17

Attendance

1st Name	Name	Employer	Affiliation	16. ; am/pm	17. ; am/-
Alon	Regev	IXIA	IXIA	1/1	1/-
Peter	Jones	Cisco	Cisco	1/-	1/-
David	Chen	Nokia Networks	Nokia Networks	1/1	1/-
Ludwig	Winkel	Siemens AG	Siemens AG	1/1	1/-
Marek	Hajduczenia	Bright House Networks	Bright House Networks	1/1	-/-
Pat	Thaler	Broadcom	Broadcom	1/1	1/-
Young	Kim	Broadcom	Broadcom	1/1	-/-
Karl	Weber	Beckhoff Automation	Beckhoff Automation	1/-	1/-
Denis	Beaudoin	TI	TI	1/1	1/-
David	Estes	Spirent Communications	Spirent Communications	1/1	-/-
Greg	Kramer	Broadcom	Broadcom	-/1	-/-
Edwin	Mallette	Bright House Networks	Bright House Networks	-/1	-/-
Curtis	Knittle	Cable Labs	Cable Labs	-/1	-/-
Arthur	Marris	Cadence	Cadence	-/1	-/-

Wednesday, 2014-07-16

1 Appointment of Recording Secretary

David Chen offered to act as recording secretary.

2 Welcome and Introductions

The Chair Ludwig Winkel opened the meeting and welcomed the experts.

3 Approve Agenda

The Chair Ludwig Winkel presented the agenda.

The agenda was approved.

4 IEEE 802.3 templates and ground rules

The Chair Ludwig Winkel 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
- ...

The Chair Ludwig Winkel called for Potentially Essential Patents
- Nobody provided any information about patents

The Editor Pat Thaler asked for help with additional technical input on (1) Managed objects, (2) Preemption verification, and (3) Delay constraint to complete the draft.

- Managed objects - while the SNMP object definitions will be done when 802.3.1 is revised, we still need to add an object class and objects to Clause 30 for the new capability/sublayer and to 79.4 for the TLV.

- Preemption verification - How to verify that preemption isn't disrupted by a silent device on the link (e.g. media converter, non-802.1Q compliant switch) that replaces the SMD with an SFD still needs some fleshing out (99.4.2).

- Delay constraints - I've put a first cut at delay constraints in the draft (99.4.8). Feedback on whether those are reasonable for implementations to meet is needed. (I also noticed a cut and paste typo on that subclause - the 4th paragraph (not counting Editor's notes) "is held" should be "is not held" (page 30 line 5).

Marek Hajduczenia and Peter Jones plan to help with the managed object technical input.

Pat Thaler offered to work on the preemption verification issue.

5 Approval of the meeting minutes from the last meeting 05/2014

The 802.3br May 2014 Norfolk interim meeting minutes was approved unanimously.

6 Presentations & Discussions

July 16th, 2014 (Wednesday) AM

Open discussion of issue brought on by Denis Beaudoin.

- Issue when non-1588 packets can be erroneously recognized as synchronization packet and impact preemption in the PHY area.

- Maybe consider informative annex on the effect of time sync and PHY preemption.

- MACsec is another one. MACsec is very digital PHY process rather than analog PHY process. These modify the behavior of the PHY. MACsec + IET preemption need to be considered further.

- The Editor Pat Thaler suggested preparing contribution or sending suggestions to the Editor for any new idea.

- Denis Beaudoin to send the Editor Pat Thaler an email to make suggestions.

The Editor Pat Thaler went through the received comments on the IEEE Draft P802.3br/D0.1 6 July, 2014 in the meeting. Marek Hajduczenia brought up the issue of EPON support with and without IET. It was agreed that Marek Hajduczenia to send out an email with a picture on EPON IET support. The Chair & the Editor suggested that only when the EPON IET support is submitted as a contribution otherwise it may not be properly considered by the group.

A joint session with 802.1 TSN on 10am July 17th 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 and to discuss the following issues:

(1) Initial frame size of preempted frames issue

(2) The delay constraint

(3) System impact to preemption, does it belong to Qbu or 3br? For example, if you do preemption and 1588 and MACsec, consistency needs to be worked out.

(4) How we cross check & cross share documents on 802.1Qbu and 802.3br

The Chair called a break for lunch at 12:00pm and to reconvene the meeting at 1:30pm.

July 16th, 2014 (Wednesday) PM

The Editor Pat Thaler continued the review of the remaining comments received on the IEEE Draft P802.3br/D0.1 6 July, 2014.

The Chair Ludwig Winkel presented the Liaison communication letter with ITU-T SG15. With the approval of 802.3br, the Chair will present the draft letter in the 802.3 closing plenary.

The Chair Ludwig Winkel discussed the time line for development of the standard

- The group decided to keep the same time line to have the WG Ballot on November, 2014
  - The next draft needs to be revised with state machine diagram added and other issues discussed in the meetings resolved. The revised draft will be ready in 3

weeks after the plenary for the 802.3br Task Force as well as the 802.1 TSN to review/comment.
- A clean draft after further revision should be ready 30 days before the November 3rd the beginning of the San Antonio Plenary Session in order to meet the November 2014 WG Ballot timeline.

The Chair Ludwig Winkel will propose a joint meeting with 802.1 TSN in Ottawa interim session.

The Chair Ludwig Winkel discussed what is expected in Ottawa interim meeting:

- To resolve Task Force comments

- Possibly go over 1 or more presentations on new ideas / contributions

- Meeting time in Ottawa interim: Probably one day suffices. However, will request 2 days just in case.

- Will ask 802.1 TSN to schedule a joint meeting in Ottawa for a couple of hours or half a day to present an update of .3br or draft walk through.

The Chair recessed the meeting until July 17th, 2014 at 10:00am

Thursday, 2014-07-17

July 17th, 2014 (Thursday) AM

The Chair and the Editor presented 802.3br IET update to 802.1 TSN in a joint session (Close to 40 people in total) on 10am July 17th, 2014.

The Chair showed a slide on the Task Force reflector, web page URL, as well as private area access with login credential to allow 802.1 TSN members to get up to date on 802.3br IET progress. The Chair offered to .1TSN that they can send comments to him and Cc Pat Thaler. These comments will be considered by the .3br either in-between meetings with direct contact to the commenter or during a meeting. The comment resolutions will be recorded so that .1TSN can see the result. It was requested from the audience to continue to hold joint meetings in the upcoming meetings as it was done in the past meetings.

The Editor walked through the draft (IEEE Draft P802.3br/D0.1 6 July, 2014) in the joint session, focusing on the Figure 99–1—Relationship of MAC Merge to the ISO/IEC Open Systems Interconnection (OSI) reference model and the IEEE 802.3 Ethernet LAN model, Figure 99–2 MAC Merge Functional Block Diagram, and highlights of each section in the draft.

802.1 TSN raised concern on the use of LLDP to exchange preemption capability mainly due to the verification concern. The Editor Pat Thaler will propose a way to solve the verification issue but also invited contribution(s) from the joint session for verification as alternatives.

The Editor Pat Thaler went over the following list of issues in the joint session:

(1) Initial frame size of preempted frames issue
(2) The delay constraint
(3) System impact to preemption, does it belong to 802.1Qbu or 802.3br? For example, if you do preemption and 1588 and MACsec, consistency needs to be worked out

(4) How we cross check & cross share documents on 802.1Qbu and 802.3br

The Chair Ludwig Winkel told the joint session to expect the next draft revision in 3 weeks and asked the joint session to please comment ASAP so that .3br Task Force can get feedback ASAP and can resolve the issues ASAP.

Meeting was adjourned at 11:45AM.