

IEEE P802.3av Interim Meeting Minutes

Seoul, South Korea, 11-13 September 2007

Recorded by Marek Hajduczenia and Duane Remein

Tuesday, 11 September 2007

Meeting commences at 09:00 (Glen Kramer, Chair).

Presentation: Agenda and General Information

- Presented by Glen Kramer at 09:02.
- Marek Hajduczenia / Duane Remein volunteered as recording secretaries.

Introductions of the people in the room (09:06).

(List of participants is available at the end of the Minutes.)

Motion #1 (09:08) [Procedural, required $\geq 50\%$]

**Approve minutes of July 2007 meeting as recorded in
3av_0707_minutes_approved.pdf**

Moved by: Duane Remein

Seconded by: Brian Holden

Approved by voice vote without opposition.

Chair goes over Ground Rules:

- Chair covers Private Directory on Task Force Reflector (09:11)
- Private Directory **802.3av** password ***** (*removed from the Minutes*)
- Chair covers policy in IEEE-SA operations manual regarding disclosure of affiliation. It is mentioned that failure to properly disclose affiliation can lead to loss of membership privileges and attendance credit. (09:13)
- IEEE patent policy is discussed at 09:15. Patent Policy slides (<http://standards.ieee.org/board/pat/pat-slideset.ppt>) were presented to the TF. (completed at 09:22)
- Chair makes Call for Patents at 09:25. No responses were received.
- Timeline was reviewed at 09:25.
- Schedule for meeting was reviewed at 09:28. Agenda was discussed and revised. Discussion on moving power budget presentations ahead of wavelength allocation presentations. No objection to the change. Schedule was amended by the Chair. Updated agenda with the new schedule was presented.

Motion #2 (09:39) [Procedural, required \geq 50%]

Approve agenda for September 2007 meeting as presented in 3av_0709_agenda.pdf

Moved by: Bidyut Parruck

Seconded by: Marek Hajduczenia

Approved by voice vote without opposition.

- Chair covers inappropriate topics for discussion
- Chair reviews future IEEE 802 plenary meetings
- Chair reviews next plenary meeting in Atlanta, GA, November 2007

Books of attendance were brought at 09:43.

Duane Remein is taking over minutes 09:50.

Presentation: Towards IEEE 802.3av D0.9

- Presented by Marek Hajduczenia at 09:50
- Discussion on the changes to be incorporated in the D0.9 draft - list of motions, changes and clauses to be affected. Reviewed current status of the draft document and motions from San Francisco meeting not included in draft 0.8.

Discussion: It was noted by Glen Kramer that motion #26 from San Francisco does not directly affect the draft.

Motion #3 (10:05) [Procedural, required \geq 50%]

802.3av Task Force authorizes the Editors to create Draft version 0.9 of Clauses 64, 91 and 92. The said Clauses shall incorporate all relevant baseline proposals as listed in 3av_0709_hajduczenia_2.pdf.

Moved: Duane Remein

Seconded: Marek Hajduczenia

Yes: 37

No: 0

Abstain: 0

Motion Passes

Total in Room: 45

Motion #4 (10:10) [Procedural, required \geq 50%]

802.3av Task force allows for allocation of 20-minute time slot on Thursday for the overview of D0.9 document structure and contents.

Moved: Duane Remein

Seconded: Marek Hajduczenia

Motion approved by voice vote without opposition

Marek Hajduczenia is taking over minutes 10:12.

Presentation: Proposed modifications to discovery messages

- Presented by Eric Lynskey at 10:12.
- Overview of the Straw Poll 2 from July 2007.
- Overview for the REGISTER_REQ MPCP DU capabilities field (4 bytes with the description of the additional capabilities of the given ONU, field will be ignored by the legacy equipment).
- Large field with plenty of room for expansion.
- Modification for the Discovery GATE MPCP DU - 2 byte field with the OLT options .
- Questions and discussion. Questions about the vendor specific fields.

Presentation: Discovery for 10G

- Presented by Brian Holden at 10:27.
- Discussion on the Discovery for 10GEPONs along with proposals for modifications for MPCP DUs: REGISTER_REQ and Discovery GATE MPCP DUs. New Opcode for the Discovery GATE (00-07₁₆).

Straw Poll #1 (11:07) [Standard rules]

- **I prefer using distinct opcodes to distinguish 1G and 10G GATE definitions:** 2
- **I prefer using fields in the GATE message to differentiate between 1G and 10G:** 14
- **Too early to tell / other solution:** 18

Straw Poll #2 (11:18) [Standard rules]

- **I prefer that the ONU declares its speed choice in the REGISTER_REQ:** 6
- **I prefer that the OLT configures the speed choice after the ONU declares what it is capable of supporting in the REGISTER_REQ:** 9
- **Too early to tell:** 18

Presentation: Feasibility of Enhanced FEC

- Presented by Toshihiko Kusano at 11:28.
- Discussion on the enhanced FEC and its impact on the power budget. Evaluation of the feasibility of RS(255,223).

Duane Remein is taking over minutes 11:35.

Presentation: Channel Link Model - Ad Hoc Activity Report

- Presented by Marek Hajduczenia at 11:35.
- Discussion the current status of the spreadsheet produced by the ad-hoc on channel link model. The spreadsheet will be uploaded to the ad-hoc webpage and must be reviewed by TF by Thursday - all comments to be submitted by Thursday.

Marek Hajduczenia is taking over minutes 11:41.

Lunch break started at 11:41.

Meeting is called to order at 13:30.

Boris Stefanov submitted a presentation 3av_0709_stefanov_1.pdf from the floor and asked for 15 minutes.

Motion [Procedural: $\geq 50\%$]

Allocate 15 minutes for 3av_0709_stefanov_1.pdf on Tuesday's agenda.

Moved: Boris Stefanov,

Seconded: Frank Effenberger

Passed by voice vote without opposition

Presentation: PIN ROSA Sensitivity

- Presenter is absent. Chair makes a call for the presenter. No answer was received. Presentation was not shown.

Presentation: 10G Launch Power around 1580 nm for Co-ex with RF Video

- Presented by: Mitsunobu Kimura at 13:35.
- Discussion on the 10G launch power for the 1580 nm channel with coexistence with RF video channel for video delivery. 1570-1640 nm 10G maximum launch power should be restricted to around 5 dBm to avoid the SRS effect sufficiently, considering J.186 RF video.

Presentation: PIN-PD based ONU (3)

- Presented by: Naoki Suzuki at 13:50.
- Discussion on the PIN-based ONU power budget. Discussed eye safety requirements based on a physical shutter to avoid single failure accident of the eye-safety control. New power budget proposal is made.

Discussion on the eye-safety controller and feasibility of the proposed protection mechanisms.

Presentation: Technical experiment for downstream B++ power budget

- Presented by: Shinji Tsuji at 14:05.
- Discussion on the feasibility of B++ power budget, with the example of the 10Gbps experiment for transmission at 1572 EML Tx and 20 km of SMF, fed to the 10G PIN Rx. ER was set at 10 dB, while the launch power is at 11.5 dBm. L-band EDFA was examined in detail - it will be necessary in the PIN enabled system. Discussion on the adjustment of the LD current versus the ambient temperature.

Presentation: Low-Power Solution for 10GE-PON

- Presented by: Hiroshi Hamano at 14:30.
- Discussion on the APD approach to ONU Rx. Overview of the advantages of low OLT launch power in terms of power budget, simplicity of the system, elimination of eye safety concerns. etc.
- Comments regarding the format - too much advertising, protection mechanism, PR10 system with potential PIN at the ONU etc.

Recessed for break – 15:11.

Reconvened from break – 15:41.

Duane Remein is taking over minutes 15:41.

Presentation: Link to the updated channel link model spreadsheet.

- Presented by: Marek Hajduczenia 15:41
- Link to the new spreadsheet:
http://www.ieee802.org/3/av/working_docs/Spreadsheet-10092007.xls

Marek Hajduczenia is taking over minutes 15:47.

Presentation: Discussion on RF and low cost solution

- Presented by: Shinji Tsuji 15:50.
- Discussion on the RF overlay solutions as well as low cost solutions for the 10G EPON systems.

Presentation: SOA Booster for PX-30

- Presented by: Boris Stefanov 16:35.
- Presentation of the capability of the SOA for the highest power class for 10GEPON systems. Several system integration and optimization options are available, leading to the cost reduction.

Straw Poll #3 (17:20) [standard rules]

- 1. I support a D/S PR-30 power budget based on +10 to +13 dBm transmit power to meet the 29+ dB insertion loss.**
- 2. I support a D/S PR-30 power budget based on +2 to +5 dBm transmit power to meet the 29+ dB insertion loss.**

For Option 1: 15
 For Option 2: 22
 None: 9

Straw Poll #4 (17:31) [standard rules]

- **Different power budget classes can use different ONU receiver technologies** 36
- **All power budgets should use the same ONU receiver technology** 5

Straw Poll #5 (17:35) [Chicago rules]

- PR-10 ONU should use PIN-PD receiver 42
- PR-10 ONU should use APD-PD receiver 15

Motion #5 (17:42) [Technical, required $\geq 75\%$]

PR-10 ONU receiver shall use sensitivity typical of a PIN-PD.

Moved: Marek Hajduczenia

Seconded: Frank Chang

Yes: 35

No: 10

Abstain: 3

Motion passes.

Head count in the room: 47

Straw Poll #6 (17:43) [Chicago rules]

- PR-30 ONU should use PIN-PD receiver 19
- PR-30 ONU should use APD-PD receiver 32

Meeting was recessed at 18:05.

Wednesday, 12 September 2007

Meeting commences at 09:00 (Glen, Kramer, Chair).
Chair announces that a new timeline was uploaded to the website.

Motion #6 (09:04) [Procedural, required \geq 50%]

802.3av Task force allow for allocation of 20-minute time slot on Wednesday for 3av_0709_sherazi_1.pdf presentation.

Moved: Imran Sherazi

Seconded: Duane Remein

Approved by voice vote without opposition

Presentation: Wavelength allocation ad hoc status

- Presented by: Keiji Tanaka at 09:05.
- Presentation on the current state of the wavelength allocation plan for the 10GEPON systems. Review of the proposals on the wavelength allocation for PR10/PR20 systems.

Presentation: Downstream wavelength range review

- Presented by: Frank Effenberger at 09:10.
- Presentation on the current state of the wavelength allocation plan for the 10GEPON systems. The main focus is on the PR30 systems with the 1574-1580 nm band. PR10 / PR20 systems can use uncooled, 20 nm pass band transmitters.

Discussion on the proposal. Issues on the coexistence with the analog video overlay - optical filter cost.

Presentation: C-band Wavelength Plan for 10G EPON downstream

- Presented by: Dongsoo Lee at 09:33.
- Presentation on the current state of the wavelength allocation plan for the 10GEPON systems – special focus on the C-band DS for 10G EPON. It is pointed out that the RF video overlay is will not be supported by the 10G systems in the future - digital video delivery will be used.

Presentation: D/S Power & Wavelength Plan

- Presented by: Bin Yeong Yoon at 09:40.
- Presentation on the current state of the wavelength allocation and power budget plans for the 10GEPON systems. PIN PD is proposed to be used in PR10 systems and PR20 systems (potentially APD can be used to meet the sensitivity target).

Coffee break started at 10:10
Meeting was called to order at 10:40.

Books of attendance were brought at 10:41.
IEEE 802.3av list of participants was circulated among the participants.

Presentation: PIN ROSA Sensitivity

- Presented by: Imran Sherazi at 10:43.
- Presentation on PIN ROSA sensitivity features. -23 dBm is quoted as worst-case scenario sensitivity PIN sensitivity at 10^{-3} BER.

Straw Poll #7 (11:07) [Standard rules]

I prefer the downstream wavelength band for PR-30:

Option A: 1574 – 1580nm	<u> 34 </u>
Option B: 1574 – 1594nm	<u> 0 </u>
Option C: 1580 – 1600nm	<u> 0 </u>
Option D: 1574 – 1600nm	<u> 1 </u>
Option E: 1545 – 1565 nm	<u> 8 </u>
No opinion / Don't care	<u> 2 </u>
Other than options A, B, C, D, E	<u> 0 </u>

Total head count: 49

Straw Poll #8 (11:10) [Standard rules]

I prefer the downstream wavelength band for PR-10 and PR-20:

Option A: 1574 – 1580nm	<u> 1 </u>
Option B: 1574 – 1594nm	<u> 0 </u>
Option C: 1580 – 1600nm	<u> 0 </u>
Option D: 1574 – 1600nm	<u> 28 </u>
Option E: 1545 – 1565 nm	<u> 11 </u>
No opinion / Don't care	<u> 2 </u>
Other than options A, B, C, D, E	<u> 0 </u>

Total head count: 49

Straw Poll #9 (11:15) [Chicago rules]

- Option 1: PR10-D/PR20-D and PR30-D may use disjoint bands 23
- Option 2: PR10-D/PR20-D and PR30-D shall use joint bands 27

Total head count: 49

Motion #7 (11:30) [Technical, required $\geq 75\%$]

The wavelength range for the OLT transmitter and ONU receiver shall span from 1574 to 1600 nm for all power classes (PR10, PR20 and PR30). The wavelength range for the OLT transmitter for PR30 class spans between 1574 and 1580 nm. The wavelength range for the OLT transmitter for PR10/PR20 classes spans between 1580 and 1600 nm (recommended range) and may optionally cover the whole 1574 – 1600 nm band.

Moved: Marek Hajduczenia

Seconded: Frank Effenberger

Motion #7A (11:37) [Procedural, required $\geq 50\%$]

Split Motion #7 into two motions, the first to read:

Motion #7-1: “The wavelength range for the OLT transmitter and ONU receiver shall span from 1574 to 1580 nm for PR30.”

Motion #7-2: “The wavelength range for the OLT transmitter and ONU receiver shall span from 1574 to 1600 nm for all power classes (PR10, PR20 and PR30). The wavelength range for the OLT transmitter for PR30 class spans between 1574 and 1580 nm. The wavelength range for the OLT transmitter for PR10/PR20 classes spans between 1580 and 1600 nm (recommended range) and may optionally cover the whole 1574 – 1600 nm band.”

Moved: Lowell Lamb

Seconded: Duane Remein

Yes: 27

No: 10

Abstain: 9

Motion passes.

Head count in the room: 49

It is observed that motions #7-1 and #7-2 are in conflict with Motion #26 from July 2007 meeting. Motions #7-1 and #7-2 are ruled out of order.

Motion #8 (11:50) [Technical, required $\geq 75\%$]

Rescind Motion #26 from July 2007 meeting

Moved: Frank Effenberger

Seconded: Marek Hajduczenia

Yes: 29

No: 6

Abstain: 9

Motion passes

Lunch break started at 11:55.

Meeting was called to order at 13:30.

Motion #9 (13:30) [Technical, required $\geq 75\%$]

The wavelength range for the OLT transmitter and ONU receiver shall span from 1574 to 1580 nm for power class PR30.

Moved: Frank Effenberger

Seconded: Marek Hajduczenia

Yes: 40

No: 0

Abstain: 2

Motion passes.

Motion #10 (13:35) [Technical, required $\geq 75\%$]

The wavelength range for the OLT transmitter and ONU receiver shall span from 1580 to 1600 nm for power class PR10 and PR20.

Moved: Frank Effenberger

Seconded: Marek Hajduczenia

Yes: 17

No: 23

Abstain: 6

Motion fails.

Duane Remein calls a question at 14:15.

Withdrawn by Duane Remein at 14:17 after discussion and objection from the group.

Motion #10a (14:25) [Procedural, required $\geq 50\%$]

Motion to table motion #10.

Moved by: Naoto Saeki
Seconded by: Dongsoo Lee

Yes: 20
No: 22
Abstain: 3

Motion fails.

Motion #11 (14:35) [Technical, required $\geq 75\%$]

The wavelength range for the OLT transmitter and ONU receiver shall span from 1545 to 1565 nm for power class PR10 and PR20.

Moved: Duane Remein
Seconded: Dongsoo Lee

Yes: 17
No: 22
Abstain: 5

Motion fails.

Head count in the room: 48 (at 14:33)

Discussion on the results of the motions #10 and #11 until 14:45.

Coffee break started at 14:45.

Meeting was called to order at 15:15.

At 15:16 Glen Kramer (acting as a participant of the IEEE 802.3av TF) presents the potential way to approach the power budget construction.

PR10 solution is well accepted.

PR20 solution seems reasonable.

PR30 solution can take advantage of the APD @ ONU.

Presentation: Compromise proposal for power budget

- Presented by: Hiroki Ikeda at 15:27.
- Presentation on the potential power budget plans for PR10, PR20, PR30. Proposal of the consensus.

Presentation: FEC-enabled Compromise

- Presented by Frank Effenberger at 15:47.
- Discussion on the potential approach for the power budget with a single OLT PMD and PIN/ APD PDs with/without FEC.

Motion #12 (16:04) [Technical, required $\geq 75\%$]

ONU for PR20 shall have sensitivity typical of PINs and ONU for PR30 shall have sensitivity typical of APDs.

Moved: Hiroki Ikeda
Seconded: Frank Effenberger

Yes: 40
No: 7
Abstain: 1

Motion passes.

Straw Poll #10 (16:17) [Standard rules]

- OLT specification should have two Tx power levels 35
- OLT specification should have one Tx power level 11
- Don't care 1

Motion #13 (16:33) [Technical, required $\geq 75\%$]

PMDs with two Tx power levels shall be specified for the OLT.

Moved: David Li
Seconded: Bidyut Parruck

Yes: 32
No: 10
Abstain: 5

Motion passes.

Motion #14 (16:37) [Technical, required $\geq 75\%$]

One OLT PMD shall be specified with the parameters typical of High Power EML and one OLT PMD shall be specified with the parameters typical of EML with booster amplifier.

Moved: Bidyut Parruck
Seconded: Bin Yeong Yoon

Yes: 37
No: 0
Abstain: 10

Motion passes.

Recessed for break – 16:57.
Reconvened from break – 17:07.
Meeting was recessed at 17:10.

Thursday, 13 September 2007

Meeting commences at 9:00 (Glen Kramer, Chair)

Chair announces the January Meeting in Portland, Oregon, January 2007.

Straw Poll # 11 (9:05) [Chicago rules]

- I will attend meeting on January 21-25, 2008 25
- I will attend meeting on January 14-18, 2008 24

Total head count in the room: 37

Overview of the schedule for the day (9:12).

Presentation: Proposal for Discovery GATE and REGISTER_REQ modifications

- presented by Eric Lynskey at 09:17
- Discussion on modifications to the modifications to the Discovery GATE and REGISTER_REQ MPCP DUs.

Motion #15 (09:23) [Technical, required $\geq 75\%$]

Adopt modifications to Discovery GATE and REGISTER_REQ as defined in 3av_0709_lynskey_3.pdf.

Moved: Eric Lynskey

Seconded: Brian Holden

Yes: 35

No: 0

Abstain: 7

Motion passes.

Duane Remein takes over the minutes at 9:25.

Presentation: Channel link model overview

- Presented by Marek Hajduczenia at 9:30
- Overview of the channel link model, the current status, live modifications, Q&A.

Presentation: Graphical Representation of Link Model tool

- Presented by Frank Effenberger at 9:45
- Presentation of a graphical representation of the channel link model. The figure will be included in the 3av_0709_linkmodel_v2_0.xls to be distributed on the web.

Motion #16 (10:22) [Technical, required $\geq 75\%$]

802.3av Task Force adopts the channel link model (formulas, not particular values) included in 3av_0709_linkmodel_v2_0.xls modified to include Figure on slide 2 of 3av_0709_effenberger_3.pdf

Moved: Marek Hajduczenia

Seconded: Frank Effenberger

Yes: 25

No: 0

Abstain: 18

Motion passes.

Presentation: Clause 91 and 64 of D0.9

- Presented by Marek Hajduczenia, at 10:50.
- Overview of Clause 91/64 version D0.9.

Recessed for a coffee break – 10:37.

Reconvened from break – 10:57.

Marek Hajduczenia takes over the minutes at 10:57.

Presentation: Clause 92 D0.9

- Presented by Duane Remein, at 11:00.
- Overview of Clause 92 version D0.9.

Presentation: How to Submit Comments – Tutorial

- Presented by Eric Lynskey, at 11:15.
- An overview on the comment submission process, comment submission tools and the various types of comments. Various review cycles are examined.

Recessed for a lunch break – 11:43.

Reconvened from break – 13:19.

Chair opens the floor for the wavelength allocation and power budget discussions.

Request to do the power budget discussion in the first place. Chair asks for objections.

No objections were voiced.

Motion # 17 (13:26) [Technical, required $\geq 75\%$]

PR10 and PR20 ONU transmitter shall have parameters typical of a DML.

Moved: David Li

Seconded: Frank Effenberger

Yes: 38

No: 0

Abstain: 3

Motion passes.

Motoyuki Takizawa presents a slide with the upstream channel power budget from San Francisco, July 2007 meeting.

Frank Effenberger presents a slide with the upstream channel power budget. 13:48.

Straw Poll # 12 (14:13) [Standard rules]

The ONU transmitter power levels for PR10 and PR20 shall be the same and PR10 OLT will not use FEC and PR20 OLT will use FEC.

- **Option 1: I think it is a good idea** 36
- **Option 2: I think it is a bad idea** 3

Motion #18 (14:15) [Technical, required $\geq 75\%$]

PR10 and PR20 OLT receiver shall have parameters typical of an APD.

Moved: Brian Holden
Seconded: Marek Hajduczenia

Yes: 32
No: 2
Abstain: 3

Motion passes.

Presentation: Consideration on Coexistence Problem of 10GE PON

- Presented by Rujian Lin, at 14:17.
- An overview on the current PON situation in China. Discussion on the best wavelength allocation scheme for China for future-proof solution. Coexistence with RF-Video Overlay is discussed. 140 million CATV subscribers. IP-TV is growing up but RF video will still remain the major way of video delivery.

Motion #19 (14:40) [Technical, required $\geq 75\%$]

The wavelength range for the OLT transmitter and ONU receiver shall span from 1580 to 1600 nm for power class PR20.

Moved: Lowell Lamb
Seconded: Marek Hajduczenia

Yes: 18
No: 14
Abstain: 6

Motion fails.

Motion #20 (14:47) [Technical, required $\geq 75\%$]

The wavelength range for the OLT transmitter and ONU receiver shall span from 1580 to 1600 nm for power class PR10.

Moved: Lowell Lamb
Seconded: Marek Hajduczenia

Yes: 25
No: 9
Abstain: 6

Motion fails.

Recessed for a lunch break – 14:59.
Reconvened from break – 15:29.

Presentation: Power budget

- Presented by Frank Effenberger, at 15:31.
- An overview on the downstream power budget - proposal for the reutilization of OLT Tx for PR10 and PR20 systems.

Discussion on the OLT transmitter started at 15:38.

Motion #21 (16:00) [Technical, required $\geq 75\%$]

PR30 OLT transmitter shall be specified with parameters typical of High Power EML.

Moved: Naoto Saeki
Seconded: Hao Feng

Yes: 29
No: 1
Abstain: 13

Motion passes.

Motion #22 (16:03) [Technical, required $\geq 75\%$]

PR20 OLT transmitter shall be specified with parameters typical of EML with a booster amplifier.

Moved: Bin Yeong Yoon
Seconded: Frank Effenberger

Yes: 34
No: 0
Abstain: 8

Motion passes.

Straw Poll # 13 (16:20) [Chicago rules]

Specification shall contain:

- Exactly 2 optical power budgets (FEC may be on or off) 17
- Exactly 3 optical power budgets (FEC is always on) 30

Motion #23 (16:24) [Technical, required $\geq 75\%$]

PR10 OLT transmitter shall be specified with parameters typical of High Power EML.

Moved: David Li

Seconded: Hao Feng

Yes: 28

No: 4

Abstain: 11

Motion passes.

Discussion on the pros and cons of the L-band and C-band.

C-band

- Pros: components available today.
- Cons: conflicts with RF video overlay, needs two different ONU filters.

L-band

- Pros: coexists with RD video, same filter can be used for all power budgets, compatible with the RF video band.
- Cons: limited component availability today.

Straw Poll # 14 (16:48) [Standard rules]

- PR10/PR20 transmission band should be specified in C-band 10
- PR10/PR20 transmission band should be specified in L-band 25

Discussion on steps for reaching consensus on the downstream transmission band for PR10/PR20.

Recessed for a lunch break – 16:52.

Reconvened from break – 17:05.

Presentation: Channel Link Model upgrade - definition of the TDP parameter.

- Presentation by Frank Effenberger at 17:18.

Duane Remein is taking over minutes 17.35.

Presentation: Towards IEEE 802.3av D0.91.

- Presentation by Marek Hajduczenia at 17:35.
- Overview of the changes and motions which are to be included in the forthcoming document D0.91.
- Motions to allow the Editors move towards draft D0.91

Motion #24 (17.35) [Procedural, required $\geq 50\%$]

802.3av Task Force authorizes the Editors to create Draft version 0.91 of Clauses 64, 91 and 92. The said Clauses shall incorporate all relevant baseline proposals as listed in 3av_0709_hajduczenia_4.pdf.

Moved: Marek Hajduczenia

Seconded: Duane Remein

Approved by voice vote without opposition

Discussion on the upcoming document D0.91 for Clauses 64, 91 and 92. Informal discussion on the PX30 power budget and its introduction into Clause 60/91.

Marek Hajduczenia is taking over minutes 17:40.

Chair presents tasks for November meeting (17:40)

- Create draft D0.91 incorporating motions from September meeting (Editors)
- Propose PMD parameters. Present results in Link Model document.
- Agree on wavelength. Ad hoc leader is Keiji Tanaka.
- Link Model future upgrade, TDP - add a new field, to be entered by the user + with other changes submitted by the members.

Motion #25 (17:54) [Procedural, required $\geq 50\%$]

Motion to adjourn

Moved: Duane Remein

Seconded: Marek Hajduczenia

Approved by voice vote without opposition

Meeting adjourned at 17:54.

List of attendees and affiliation

Name	Affiliation
Choo, Ahn Goo	OE Solutions
Chow, Jacky	Marvell
Daido, Fumio	Sumitomo Electric
Diab, Wael	Broadcom
Effenberger, Frank	Huawei
Feng, Dongning	Huawei
Feng, Hao	Eudyna Devices
Hajduczenia, Marek	Nokia Siemens
Hamano, Hiroshi	Fujitsu Labs
Hirano, Kengi	NEC
Hirth, Ryan	Teknovus
Holden, Brian	PMC Sierra
Hotta, Yoshifumi	Mitsubishi Electric
Ikeda, Hiroki	Hitachi
Joo, Bheoh-Soon	ETRI
Kang, Dae Kyung	KT
Kang, Tae-Kyu	ETRI
Khotimsky, Denis	Motorola
Kim, Bong Kyu	ETRI
Kim, Daeuh	ETRI
Kim, Jongdeog	ETRI
Kim, Jung Sik	ETRI
Kim, Yong	ETRI
Kimura, Mitsunobu	Hitachi Communications Tech.
Kinugasa, Jun	Sumitomo Electric
Kramer, Glen	Teknovus
Kusano, Toshihiko	PMC Sierra
Kwak, Sung-Hoon	ETRI
Lamb, Lowell	Teknovus
Lee, Dongsoo	ETRI
Lee, Minseob	ETRI
Leung, Raymond	Huawei
Li, David	Ligent
Lin, Rujian	Shanghai Luster Teraband Photonics
Lynskey, Eric	Teknovus
Nakanishi, Hiromi	Sumitomo Electric
Nomura, Takumi	NEC Communication Systems
Ogushi, Sadaichiro	NEC

Otaka, Akihiro	NTT
Parruck, Bidyut	Cortina Systems
Remein, Duane	Alcatel-Lucent
Ryoo, Jeong-Dong	ETRI
Saeki, Naoto	NEC Corporation
Sherazi, Imran	Gennum
Stefanov, Boris	Alphion
Suenoga, Satoru	Kawasaki Microelectronics
Suzuki, Ken-Ichi	NTT
Suzuki, Naoki	Mitsubishi Electric
Tajima, Akio	NEC
Takizawa, Motoyuki	Fujitsu Access
Tanaka, Keiji	KDDI R&D Labs
Tsuji, Shinji	Sumitomo Electric
Uematsu, Kiyoshi	OKI Electric
Wang, Sam	Huawei
Yanagisawa, Hiroki	NEC
Yokomoto, Tetsuya	Fujitsu Access
Yoo, Tae-Whan	ETRI
Yoon, Bin Yeong	ETRI
Yoon, Hosung	KT