

Closing Report

IEEE P802.3ca 100G-EPON

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Agenda

- ❑ Administrative stuff (Glen)
- ❑ Task force votes via teleconference (Jorge)
- ❑ Weekly meetings
- ❑ Work plans
- ❑ Getting Answers
- ❑ Making decisions in China

Weekly Meetings

NG-EPON

- ❑ Need to adjust to every other week

- ❑ I will cancel current recurring meeting, and set a new meeting

- ❑ Request for agenda items should be made by Monday for a Thursday meeting
 - If no requests, meeting is cancelled

- ❑ Work areas need more detail
 - What decisions to be made
 - What contributions are needed
- ❑ Work area leads need to show work items and dependencies, and what is needed to make decisions
- ❑ This will lead to a more detailed project plan

Questions

- ❑ What information is needed to select wavelengths?
 - coexistence with 1G-EPON
 - coexistence with RFoG
- ❑ Is the group absolutely set on 4 wavelengths @ 25 Gb/s?
- ❑ Generational approach?
 - 1st gen = 1 lambda, 25 Gb/s; 2nd gen = 2 lambda, 50 Gb/s, 25 Gb/s;
3rd gen = 4 lambda, 100 Gb/s, 50 Gb/s, 25 Gb/s)
- ❑ Channel bonding, i.e., ability to deliver more than 25 Gbps per ONU
 - ONU uses all channels whenever it transmits/receives? (can we stripe then?)
 - Another way to ask it... can a 100G ONU transmit at a lower rate?
- ❑ Support for 25/50/100 on a single OLT port (multiple generations of .3ca coexisting on a single port)

Questions

NG-PON

- ❑ Ability for multilane ONU (with 2, 3, or 4 lanes) to shed some lane and operate on a subset of supported lanes (say, ONU with 4 lanes operates only on 2, effectively; this can be used for power saving, for example, or when one lane is busy)
- ❑ Ability to connect 25G ONUs on multiple channels (e.g., some 25G ONUs connect on channel 1, some on channel 2, etc. – this would allow OLT to support 4 independent PONs, in a manner similar to NG-PON2 today – each channel becomes an independent PON)
- ❑ Support for tunable optics (additional tuning protocol will be needed, together with transceiver specification, tuning range, etc.)
- ❑ Ability to disable FEC on per OLT port basis (affecting all ONUs)
- ❑ Ability to disable FEC on per ONU basis (affecting just selected ONU)

Thank you!