

# Minutes of P2MP Optics Telephone Conference 23/08/2002

## Attendees

Bartur, Meir  
Dawe, Piers  
Murphy, Tom

## Summary

### *OMA*

1. It was unclear to the attendees what the status of OMA discussions is in the larger group, has there been enough discussion of this topic or if further technical presentations are required.
2. There has been discussion of the short comings of power meters when using an OMA definition. The point was raised during the call that special considerations of power measurement are required for burst mode operation irrespective of OMA or ER definitions. Perhaps we need to define a mechanism of CW upstream operation to allow power measurements (and other Tx measurements)?

### *Power Levels*

1. Very brief discussion of the changes proposed by Frank Effenberger, i.e., increasing the ONU output power from -3 dB (min) to -2 dB (min). This would reduce the required sensitivity of the OLT Rx by 1 dB. The comments on the call were that this is not a major problem technically but do we want to harden the specifications of all ONU Tx's at all reaches so as to enable operation at 20 km?

### *Jitter and Timing Issues*

1. It was stated that two issues need to be resolved before progress can be made with Clause 58, one is the timing values for burst mode and the other is the system architectural decision of how to deal with the clock at the ONU.
2. The ONU jitter definition are dependent on clock type, for example, if the clock is to be recycled, then one needs jitter transfer values.
3. A presentation detailing how FSAN deal with clock issues in the upstream would be useful for further discussion of this issue.
4. In terms of the burst mode timing, also need estimates of jitter introduced by CDR etc
5. Need a system architectural level reference model which allows bandwidth efficiency calculations based on guardband values and traffic type. This model would be used as a standard tool by the whole group, similar to the link budget model. This would assist progress with PON timing issues.

## Action Items

1. Are there references to power measurements of the burst mode Tx in G983 - ???
2. Efficiency model based on guardbands and traffic type – P2MP group?
3. Need a decision on the ONU clock before one can proceed with jitter discussions – P2MP group?
4. ONT clock presentation from FSAN - ???