IEEE 802.3ba XR ad hoc Conference Call, 23 May 08
Meeting Notes
Chair: Alessandro Barbieri
Recording Secretary: none

Attendees: many including
Alessandro Barbieri
John D'Ambrosia
Paul Kolesar
Jack Jewell
Ryan Latchman
Ali Ghiasi
John Petrilla
Larry Green
Frank Chang

The host and chair of the meeting opened the meeting (phone and web conference) at 8:30 AM Pacific.

Alessandro Barbieri asked if anyone was not familiar with the IEEE patent policy and encourage everyone to review it. There were no responses.

Alessandro Barbieri proposed that the ad hoc group view the various proposed approaches, discuss, sort through and pick something for July 802.3ba meeting.

Presentation #1: MMF PMDs by John D'Ambrosia, see dambrosia_xr_01_0508.pdf
John reviewed 802.3ba objectives and discussed distinct identity issues. To avoid a distinct identity conflict, an informative annex appears to be the most acceptable approach.

Presentation #2: Offered for discussion of the Extended Reach MMF ad-hoc by Paul Kolesar, see kolesar_xr_01_0508.pdf
Paul presented interop matrices of the various options showing fiber reach from each combination, including the baseline. All reach numbers except for the baseline are considered placeholders.

Presentation #3: Extended-Reach MMF Via TxSpec/OM4 by Jack Jewell, see jewell_xr_01_0508.pdf
Jack presented optical transmitter parameters where enhancements are possible that may lead to link length extensions for both OM3 and OM4 fiber including tradeoff among these parameters. There was discussion regarding the ability to distinguish between the enhanced module and the base module.

During the discussion Paul Kolesar informed the group that for OM4 modal bandwidth of 4700 MHzkm is appropriate at 850 nm but 4400 MHzkm should be used for 840 nm.

Presentation #4: Extending the OM3 Reach with EDC to 300m by Ali Ghiasi, see ghiasi_xr_01_0508.pdf
Ali presented benefits possible with use of a retimer in the optical transmitter and a linear optical receiver in combination with linear host IC with EDC. His next step will be a similar analysis for KR like equalization.

Presentation #5: CDR Based Extended Reach by Ryan Latchman, see latchman_xr_01_0508.pdf
Ryan presented benefits of CDRs as retimers for cases where CDRs are internal as well as external to the optical module. Ryan and John Petrilla will collaborate to estimate link length enhancements.

Next Steps:
Next Meeting: Phone and web conference on Thursday, May 29, 7:00 to 9:00 AM Pacific
- Concentrate on setting up comparison criteria
- Alessandro will send a note to reflector requesting criteria especially from equipment/system vendors
- All participants will propose criteria
- All will continue to refine their proposals