Meeting Minutes

Group: IEEE P802.3bn Channel Model Ad Hoc committee.

Event: Teleconference

Date: 1 Nov 2012from 1:00 PM to 2:30 PM EDT

Recorded by Duane Remein

Summary: Fourth meeting of the Channel Model Ad Hoc committee. After reviewing IEEE Patent policy a call for patents was made, no responses’ were received. The participants briefly reviewed the parameter list and were asked to supply feedback on which items in the “Consider” tab should be included in the parameter list. Channel model tools were discussed, Rich Proden (Broadcom) described an Excel modeling tool he is working on.

# Opening

The group reviewed the agenda.

The group reviewed IEEE Patent Policy and a Call for Patents was made, no responses were received.

# Tools

Hal Roberts (Calix) noted that he had agreed to assist Marek in development of a static model.

Rich Prodan reviewed a channel model tool he is working on in Excel. The tool simulates a COAX distribution network by first modeling each component in the network (AMPs, taps, splitters, equalizers, etc.). Then using a closed form frequency response of the cascaded discrete elements a transfer function is derived describing the frequency response between any two points in the network. The model outputs amplitude and group delay versus frequency and can determine baseband impulse response in any desired frequency range and bandwidth via an FFT of the calculated frequency response.

Rob Howald (Motorola) is preparing information on: 1) noise and non-linear distortion, 2) linear distortion and 3) interference components such as impulse noise. This information should complement the model Rich Prodan is developing.

It was mentioned that network characteristic above 1.2 GHz (in the 1.7 GHz range) is of interest to the group. It was stated that this may be reasonable for N+0 topologies but is not feasible with existing amplifiers for more complex topologies.

# Parameter List

The parameter list was briefly reviewed. Participants were asked to provide input using the distributed excel file regarding which items from the “Consider” tab should be included in the final parameter list.

Saif Rahman (Qualcomm) et al has been gathering input from various NA and EU MSO’s and is currently consolidating and tabularizing this input so as to provide the data in an anonymous form. He hopes to have this ready for preliminary distribution by the San Antonio meeting. The initial data may include linear optics impact that are not as much of a concern to EPoC but this should for a good starting basis for the EPoC data. He is also working up a schedule for refining this initial information.

Hal Roberts agreed to re-distribute his email on “OFDM numerology”.

# Action Items

No new action items were taken.

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| **Item** | **Date** | **Assigned to** | **Status** | **Description** | **Response/Update** |
| 5 | 121004 | S Rahman | O | Distribute the channel model output information collected by the informal group. | Expected ~10/17 |
| 7 | 121010 | D Remein | O | Start Parameter List | Initial version distributed 10/18 |
| 9 | 121018 | Marek Hajduczenia / Hal Roberts | O | Capture static model in Excel  |   |

# Detailed presentation material:

All presentations will be available at [the p802.3bn private web site](http://www.ieee802.org/3/bn/private/index.html).

# Attendees:

|  |  |
| --- | --- |
| **Name** | **Affiliation** |
| Farmer, Jim  | Aurora Networks |
| Hanna, Charaf  | ST |
| Hart, George | Rogers |
| Hewavithana, Thushara | Intel |
| Hou, Victor | Broadcom |
| Howald, Rob | Motorola |
| Knittle, Curtis | Cable Labs |
| Nicholich, Paul | IEEE |
| Prodan, Rich | Broadcom |
| Rahman, Saifur | Comcast |
| Roberts, Hal  | Calix |
| Solomon, Joe | Comcast |
| Remein, Duane | Huawei |