

Big Ticket Items for P802.3bs

- January 2015 Interim Meeting

Big Ticket Items - PCS

- PCS proposal
 - gustlin_3bs_02_0115
- Actions:
 - Slide 11 per gustlin_3bs_02 are work items
 - PMD selection influence PCS and FEC
 - Need burst error nature to select PCS and FEC
 - Error model by PMD type?

Big Ticket Items - FEC

- FEC reference presentations
 - wang_x_3bs_01_0115.pdf
- Actions:
 - PMD selection
 - BERin required by PMD
 - Try to eliminate unacceptable FEC options e.g. in wang_x_3bs_01
 - 4x100G or 1x400G FEC striping
 - Impact of overspeed on PMD error rates

Big Ticket Items - PMA

- PMA reference presentations:
 - Slavick_3bs_01_0115.pdf
 - Wang_t_3bs_01_0115.pdf
 - Gustlin_3bs_02_0115.pdf
- Actions:
 - PMD selection and electrical interfaces will impact Muxing scheme

Big Ticket Items - Arch

- Proposal:
 - dambrosia_3bs_02b_0115.pdf
- Actions:
 - None

Big Ticket Items - EEE

- Proposal:
 - marris_3bs_01_0115.pdf
- Actions:
 - None

Big Ticket Items - OTN

- proposal
 - trowbridge_3bs_01a_0115.pdf
- Actions:
 - none

Big Ticket Items – Electrical Interfaces

- proposals
 - Goergen_3bs_03a_0115.pdf
- Actions:
 - none

Big Ticket Items – C2C CDAUI-8

- proposals
 - PAM4: li_3bs_01a_0115.pdf
- Actions:
 - Refine proposal and COM model
 - Test data from industry products, when available
 - Power
 - Simulations on adopted channel
 - Industry channel data for simulation purposes
 - Package effects

Big Ticket Items – C2C CDAUI-8

- proposals
 - NRZ: palkert_3bs_02_0115.pdf
- Actions:
 - Refine proposal and COM model
 - Test data from industry products, when available
 - Power
 - Simulations on adopted channel
 - Industry channel data for simulation purposes
 - Package effects

Big Ticket Items – C2M CDAUI-8

- proposals
 - NRZ: palkert_3bs_01_0115.pdf
 - PAM4: brown_3bs_01a_0115.pdf
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - Refine proposal ILD/xtalk
 - Test data from industry products, when available
 - Power
 - Simulations on adopted channel
 - Industry channel data for simulation purposes
 - Package effects
 - Test procedures and reference receivers with channel simulations

Big Ticket Items - LPPI

- Actions:
 - C2C and C2M interaction across the 3 reaches
 - Refine proposal and build consensus

Big Ticket Items – 10km SMF PMD

- proposals
 - Cole_3bs_01_0115.pdf (NRZ)
 - Cole_3bs_02_0115.pdf (PAM4)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity

Big Ticket Items – 10km SMF PMD

- proposals
 - Kojima_3bs_01a_0115.pdf (NRZ)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity

Big Ticket Items – 10km SMF PMD

- proposals
 - Takahara_3bs_01_1114 (DMT)
 - corbeil_3bs_01_0115 (DMT)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity
 - Optical loss budget model
 - interoperability

Big Ticket Items – 500m SMF PMD

- proposals
 - Cole_3bs_03a_1114 (NRZ)
 - Cole_3bs_04a_1114 (PAM4)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity

Big Ticket Items – 500m SMF PMD

- proposals
 - Welch_3bs_01a_0115 (PAM4)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity
 - More Test results (prefer real data on all proposals)

Big Ticket Items – 500m SMF PMD

- proposals
 - Lewis_3bs_01a_1114 (DMT)
 - Corbeil_3bs_01_0115 (DMT)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity
 - Optical loss budget model
 - interoperability

Big Ticket Items – 2km SMF PMD

- proposals
 - Cole_3bs_01_0115.pdf (NRZ)
 - Cole_3bs_02_0115.pdf (PAM4)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity

Big Ticket Items – 2km SMF PMD

- proposals
 - Kojima_3bs_01a_0115 (NRZ)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity

Big Ticket Items – 2km SMF PMD

- proposals
 - Lewis_3bs_01a_0115 (PAM4)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity

Big Ticket Items – 2km SMF PMD

- proposals
 - Lewis_3bs_01a_1114.pdf (DMT)
 - Corbeil_3bs_01_0115.pdf (DMT)
- Actions:
 - Evaluate Coupling between electrical and optical interfaces
 - RX Technical feasibility
 - Dispersion penalty worst case (in SMF ad hoc)
 - TDP. MPI
 - RX sensitivity
 - Optical loss budget model
 - interoperability