

# 2.5G/5G EEE Consensus Proposal

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# 2.5G/5G EEE Considerations

- Text in Draft 0.1 is based on current 802.3bq/40GBASE-T draft.
- 2.5G/5G should be based on 10GBASE-T because:
  - Lots of diligence in IEEE to reach consensus on draft 802.3az draft 3.0 (April 2010)
  - Details of the implementations well understood
  - Proven products in the field

# 2.5G/5G EEE Proposal

- Start from 10GBase-T
- Minimize changes
- 2.5G/5G uses 2X LDPC to compensate for half size frame.
- EEE Parameters scaled by 2X:
  - Sleep, Refresh, Wake, Alert
- Keep the Quiet time duration (in number of LDPC frames) similar to 10G
  - Bounds Clock Recovery PPM Phase Drift during Quiet time.

# EEE Baseline Parameters

Parameter	10G # LDPC Frames	5G #LDPC Frames	2.5G #LDPC Frames
Sleep	9	18	18
Refresh	4	8	8
Quiet	124	120	120
Wake	9	18	18
Alert*	4	8	8

\*Including Silent Period

Quiet plus Refresh should add to 2^n

10G LDPC Frame = 320ns

5G LDPC Frame = 320ns

2.5G LDPC Frame = 640ns

# Motion

- Move to: adopt EEE Consensus Baseline Proposal as defined in Shirani\_3bz\_01\_0715.pdf pages 3 and 4 as the basis for EEE for 802.3bz draft
- M:Ramin Shirani
- S: Technical (75%)
- Y: XX N: XX A: XX
- MOTION