40G EEE Changes





EEE Changes – Included in legacy and Fast Wake



- Increase Refresh length from 4 to 6 LDPC frames
 Longer echo
- Decrease number of Sleep frames from 9 to 5
 - Decrease case 2 latency
- LPI back channel
 - Info field type of data
 - Use to ask link partner to cease transmitting LPI mode for x minutes

Fast Wake



- Auto-negotiable
- Reduce Alert from 4 to 3 LDPC frames
 5 of the repeating ½ LDPC frames, ½ LDPC frame quiet
- No Wake. Data starts after Alert
- Latencies including change to Sleep length
 - Case 1: 3 + 1 = 4 LDPC frames => 0.320us
 - Case 2: 5 + 3 + 1 = 9 LDPC frames => 0.720us
- 10G latencies
 - Case 1: 4 + 1 + 9 = 14 LDPC frames => 4.48us
 - Case 2: 8 + 4 + 1 + 9 = 23 LDPC frames => 7.36us