

OAM straw polls based on Lane PMA + FEC + PCS

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Pair swap

- Behavior if any pair is swapped with another pair
 - A. No Communication & No fault reported
 - B. No Regular communication, but fault reported
 - C. Compensate for swapped pairs to allow communication and report the fault
 - D. No opinion

Straw Poll #2: Pair Swap: Behavior if any pair is swapped with another pair.

A: 2

B: 11

C: 20

D: 15

Pair swap (if C won)

- If there is a desire to correct for pair swap for 4-pair link
 - A. Correct for swap of any two pair
 - B. Correct for swap of any two or three pair
 - C. Correct for swap of any two, three, or four pair
 - D. No opinion

Straw Poll #3: Pair Swap(if C won): If there is a desire to correct for pair swap for 4-pair link.

A: 6

B: 2

C: 18

D: 20

Per Lane or Per Link Fault Reporting

149.3.9.2.5 PHY health

The PHY Health (SNR<1:0>) is indicated in OAM<0><1:0>.

This status is set by the PHY to indicate the status of the receiver. The definitions of good, marginal, when to request idles, and when to request retrain are implementation dependent.

- 00: PHY link is failing and will drop link and relink within 2 ms to 4 ms after the end of the current OAM frame
- 01: LPI refresh is insufficient to maintain PHY SNR. Request link partner to exit LPI and send idles (used only when EEE is enabled)
- 10: PHY SNR is marginal
- 11: PHY SNR is good

- PHY health should be

- A. Per Lane
- B. Per Link
- C. No opinion

Straw Poll #4: Per Lane or Per Link Fault Reporting: PHY Health

A: 21

B: 11

C: 10

Per Lane or Per Link Fault Reporting

	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Symbol 10	Reserved	1	Status valid	Power supply warning	Internal temp warning	No MAC messages warning	Degraded link segment	Polarity inversion	Clear REC	REC cleared

- Power supply warning should be:

- A. Per Lane
- B. Per Link
- C. No opinion

Straw Poll #5: Per Lane or Per Link Fault Reporting: Power Supply Warning

A: 19

B: 14

C: 9

Per Lane or Per Link Fault Reporting

	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Symbol 10	Reserved	1	Status valid	Power supply warning	Internal temp warning	No MAC messages warning	Degraded link segment	Polarity inversion	Clear REC	REC cleared

- Internal temp warning should be:

- A. Per Lane
- B. Per Link
- C. No opinion

Straw Poll #6: Per Lane or Per Link Fault Reporting: Internal Temp Warning

A: 16

B: 16

C: 10

Per Lane or Per Link Fault Reporting

	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Symbol 10	Reserved	1	Status valid	Power supply warning	Internal temp warning	No MAC messages warning	Degraded link segment	Polarity inversion	Clear REC	REC cleared

- Degraded link segment should be:

- A. Per Lane
- B. Per Link
- C. No opinion

Straw Poll #7: Per Lane or Per Link Fault Reporting: Degraded Link Segment

A: 19

B: 15

C: 8

OAM Report of Polarity Inversion

	D9	D8	D7	D6	D5	D4	D3	D2	D1	D0
Symbol 10	Reserved	1	Status valid	Power supply warning	Internal temp warning	No MAC messages warning	Degraded link segment	Polarity inversion	Clear REC	REC cleared

- What would you want reported in the OAM for polarity inversion?
 - A. Whole link status (no polarity inversion/1 or more pairs have polarity inversion)
 - B. Individual lane status (polarity inversion (y/n) for each pair)
 - C. One is needed, but no preference
 - D. Information on polarity inversion is not needed
 - E. No opinion

Straw Poll #8: What would you want reported in the OAM for polarity inversion?

- A: 7
- B: 17
- C: 1
- D: 2
- E: 15

Per Lane or Per Link REC Reporting

Symbol 12	Reserved	1	REC<7:0>
Symbol 13	Reserved	1	REC<15:8>

- REC should be

- A. Per Lane
- B. Per Link
- C. No opinion

Straw Poll #9: REC should be?

- A: 15
- B: 10
- C: 17