

EFM Copper

Copper recap

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It's baseline time!

- **First order of the week – pass baselines**
 - 1 – soup-to-nuts
 - Plus – PHY-MAC, loop-aggregation, PMD control
- **The baseline must pass in order to progress**
 - Linecode issue
 - Open items (minor details?)
- **Further technical discussions**
 - 64b/66b vs HDLC
 - Simulation & test environment
 - More “stuff”

Loop Aggregation Baseline

- In the copper track we will be passing a motion of this form:
- Adopt presentation nnnn_1_03_02.pdf as the basis for the first draft to meet the following objective:
- Include an optional PHY specification for combined operation on multiple copper pairs.

Main Copper Baseline

- Then we will pass a motion of this form:
- Adopt presentations nnn_1_0302.pdf, nnn_1_0302.pdf, nnn_1_0302.pdf as the basis of the first draft to meet the following objective:
- PHY for single pair non-loaded voice grade copper distance $\geq 750\text{m}$ and speed $\geq 10\text{Mbps}$ full duplex.

... and then

- **The results of these motions will be presented to the TF closing session. The TF will be invited to take them into account when adopting the baseline for draft D1.0**
- **In addition we will discuss and vote on a statement regarding the dual line code issue in order to make it clear that:**

There will be only one line code in the standard

The choice of line code is a technical detail that need not delay the standard progress (yet)...

Copper Baseline Statement

- **The Task Force will adopt a copper baseline which does not specify whether the chosen linecode will be DMT or QAM as specified by the referenced standards.**
- **The Task Force will form a copper linecode ad-hoc group to define criteria for the choice of the linecode and recommend one linecode prior to submission of the standard for Working Group ballot.**

Presentations

- **Baseline – 4 presentations**
 - 2 rival soup-to-nuts
 - 1 x MAC-PHY rate matching
 - 1 x Loop aggregation
 - 1 x PMD control
- **Technical discussions**
 - Simulation and test
 - 64b/66b vs HDLC
 - Addendum to loop aggregation
 - Power backoff
 - Dual latency paths
 - Line code choice

The Copperheads march on...

- Questions?