

Economic Feasibility Ad Hoc Report

IEEE 802.3
400 Gb/s Ethernet Study Group

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Ad Hoc Report (1)

- Conf Call Held on Jan 7th
 - Thank you IEEE-SA for hosting the WebEx!
 - Agenda
http://www.ieee802.org/3/400GSG/public/adhoc/con_feas/agenda_efa_01_14_0107.pdf
 - Presentation
http://www.ieee802.org/3/400GSG/public/adhoc/con_feas/moorwood_efa_01_14_0107.pdf
 - Meeting notes (unapproved)
<http://www.ieee802.org/3/400GSG/email/msg00172.html>

Ad Hoc Report (2)

- Presentations received to address some of gaps identified in moorwood_efa_01_14_0107
- Requesting presentations to address “known cost factors” criterion
 - Yield impact of BER objective on MMF and SMF optics
 - Yield impact of 16 wide laser arrays
 - Relative cost of DSP etc. in PMD alternatives supporting 10 km reach objective
- Anticipate we will need 1 more ad hoc call in February to get further supporting material prior to the March plenary

Proposed Responses to: **Economic Feasibility** Criteria

Each proposed IEEE 802 LMSC standard shall provide evidence of economic feasibility. Demonstrate, as far as can reasonably be estimated, the economic feasibility of the proposed project for its intended applications.

Among the areas that may be addressed in the cost for performance analysis are the following:

- a) **Balanced costs (infrastructure versus attached stations).**
 - b) **Known cost factors.**
 - c) **Consideration of installation costs.**
 - d) **Consideration of operational costs (e.g. energy consumption).**
 - e) **Other areas, as appropriate.**
- In consideration of balancing costs between end stations and infrastructure it is anticipated the project will examine alternatives that trade off PMD complexity for parallel media paths.
 - The cost factors for Ethernet components and systems are well known. The proposed project may introduce new cost factors which can be quantified.
 - In consideration of installation costs, the project is expected to use proven and familiar media, including optical fiber and copper cabling technology.
 - Network design, installation and maintenance costs are minimized by preserving network architecture, management, and software.
 - In consideration of operational costs, the project has adopted an energy efficiency objective.

Thank You