Extended EPON Study Group

Five Criteria Technical Feasibility

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Extended EPON Study Group
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Technical Feasibility

a) Demonstrated system feasibility
b) Proven technology, reasonable testing
c) Confidence in reliability

» This Study Group received contributions illustrating the technical feasibility of extended power classes for EPON, operating in various configurations and providing power budgets in excess of power classes specified for 1G-EPON and 10G-EPON in IEEE Std 802.3-2008 and IEEE Std 802.3av-2009, respectively.

» This project builds on field proven EPON technology operating in a symmetric (1/1G, 10/10G) or asymmetric (10/1G) modes, which have been field tested to be stable and credible. Considering the existing industry experience in building EPON systems operating in various configurations, their deployments in different environments as well as variety of services supported on top of EPON, there is no doubt about the reliability of this solution in the access market space. Testing of the proposed extended physical layers for EPON remains identical to existing 1G-EPON and 10G-EPON physical layers and is expected to be straightforward, based on experience gained from testing of existing products.

» This Study Group has received contributions from PHY and system vendors; end users; and industry/academic experts. The 1G-EPON and 10G-EPON technologies are mature and reliability data exists which provides a high level of confidence in reliability of EPON systems.

Motion

Approve the response to Technical Feasibility Criterion as shown on page 2 in ExEPON_1111_5Crit_Technical.pdf

Moved by: David Li

Seconded by:

Yes:

No:

Abstain: