Five Criteria Economic Feasibility

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Economic Feasibility

- a) Known cost factors, reliable data
- b) Reasonable cost for performance
- c) Consideration of installation costs
- » Ethernet is a cost-effective solution at the speeds of up to 100 Gb/s. The cost factors for Ethernet components and systems are well known and have been quantified in detail by past projects.
- » 10 GbE and 1G-EPON systems have been commercially deployed en mass, while 10G-EPON systems are becoming main-stream in new deployments. The cost factors for the components and systems are well known and there is a broad and healthy industry ecosystem associated with these technologies.
- Point-to-multipoint topology is optimal for broadcast services, IP-based TV, mobile backhauling and delivery of advanced MEF business services, providing cost-efficient subscriber access architecture. Coupled with a reduction of the footprint and power consumption of CO equipment, reduction of trunk fiber count, and lower maintenance and repair costs, EPON architecture results in the overall reduction of infrastructure cost and reasonable cost for performance ratio. The addition of extended power budget classes will further increase the customer density at the Central Office, minimizing cost per customer and per bit, especially critical for the commercial success of 10G-EPON systems.
- » In terms of installation costs, the project is expected to use proven, well-known point-to-multipoint single mode fiber architecture, maintaining backward compatibility with existing EPON deployments.
- » Network design, installation and maintenance costs are minimized by preserving network architecture, management, and software.



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Motion

Approve the response to Economic Feasibility Criterion as shown on page 2 in ExEPON_1109_5Crit_Economic.pdf

Moved by: David Piehler

Seconded by:

Yes:

No:

Abstain:

