

**Ethernet In The Last Mile,  
or**

**“Ethernet to the Home”:**

**The Global Desktop Protocol  
Enters The Global Access Market**

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**To paraphrase a previous well known  
advertisement:**

**It is “neat technology.  
It looks great, sounds great.**

**But where’s the Money?**

**The success of “Ethernet to the Home” will be based on the ability of service providers to deploy the technology in a way that is profitable.**

**That means,  
IT MUST BE ABLE TO PAY FOR ITSELF!**

**A residential service based on a single service has a hard time paying for itself.**

**That means “Ethernet to the Home” must be able to support multiple diverse services with very diverse service models.**

**The service models must be such that the number of homes that purchase the services is high enough to provide revenues that will pay for the cost of the equipment, cost of operations, cost of the service initiators, and still provide a profit to the service provider.**

**In order to provide a basis for multiple diverse services means that the base technology must account for the applications management and operations support for the transport facilities and the customer premise equipment.**

**Operations support includes the requirement for a network management channel outside of the revenue bearing traffic, similar to to the WAN PHY of 10GbE. For “Ethernet to the Home” this will include a full deployment architecture, often referred to as an embedded Data Communications Network (DCN). This is normally outside of the function of a 802 working group.**

**For “Ethernet In the Last Mile” or “Ethernet To The Home” to be successful, the standard must be able to address functions that have not traditionally been part of 802.3 Ethernet. New business cases must be accounted for. New operations functionality must be accounted for. Specific applications interfaces must be accounted for. Billing functionality must be accounted for.**

**As a standard, “Ethernet In The Last Mile” will be different in ways that many of the 802.3 participants may not presently comprehend. This is a “whole new ball game”.**