

# The Metro Ethernet Forum

*Helping Define the Next Generation of  
Service and Transport Standards*

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# Agenda

- **The Case for Metro Ethernet**
- **The Benefits of Standards**
- **MEF Overview**



# *The Case for Metro Ethernet*

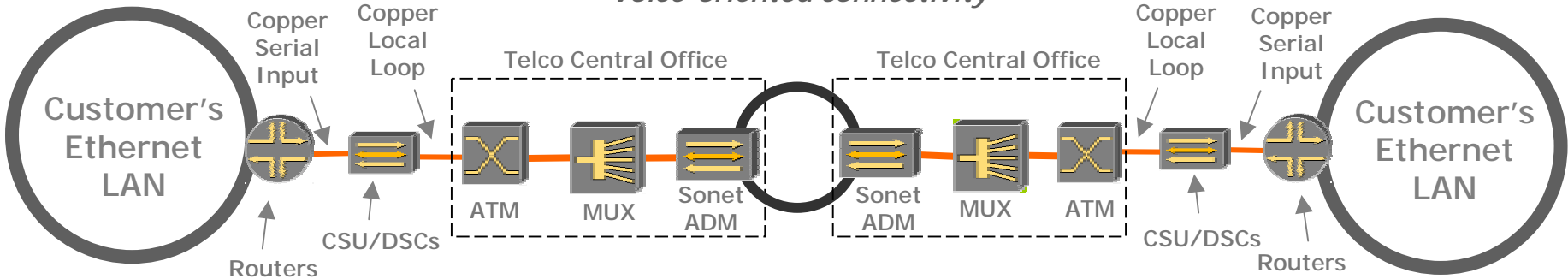
## **Ethernet in the Metro**

- **The number of sites demanding high speed access and flexible data services is growing fast**
- **Ethernet is a mature, predictable and well-standardized data networking technology**
- **Metro Ethernet significantly lowers Total Cost of Ownership, which benefits carriers and their customers**

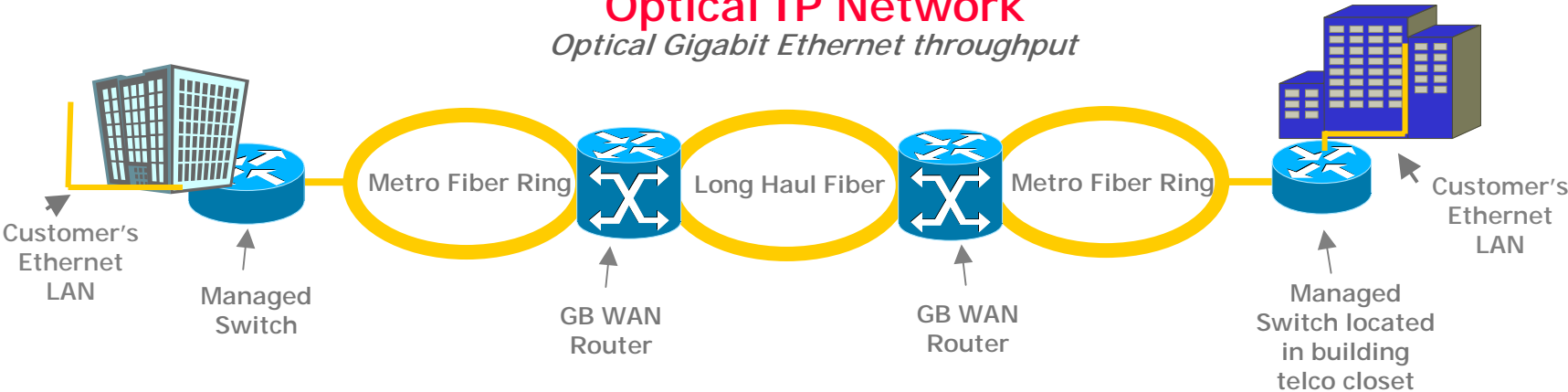
# Optical Ethernet

## Simplifying the Network

Traditional Telco Network  
*Voice-oriented connectivity*



Optical IP Network  
*Optical Gigabit Ethernet throughput*



# The Case for Ethernet Services

## *Advantages for End-Users*

- **Flexible services and scalability**
  - *Eliminate over-provisioning*
  - *Networks readily satisfy growing bandwidth demand*
  - *1 Mbps – 1 Gbps*
- **Lower start-up costs**
  - *CPE costs reduced by mass scale of Ethernet market*
- **Lower engineering and operational support**
  - *Simple Ethernet technology*
- **Faster service delivery**
  - *Point & Click provisioning, no 3-month delays*

# The Case for Ethernet Transport

## *Advantages for Service Providers*

- **People**
  - *Reduced engineering and support cost*
  - *Simplified fault isolation and diagnostics*
  - *Dynamic, point & click service provisioning*
- **Pipes**
  - *Efficient data transport*
  - *Economical scalability*
- **Ports**
  - *Cost-effective network build-outs*

## **Market for Metro Ethernet**

- **Metro Ethernet is a key growth area for RBOCs,** *with significant deployments in 2003 (Solomon Smith Barney, RBC, Yankee)*
- **\$4 billion in annual metro Ethernet service revenue by 2006 in North America (RHK)**
- **Strong demand for metro Ethernet in APAC and Europe (RBC Capital Market)**

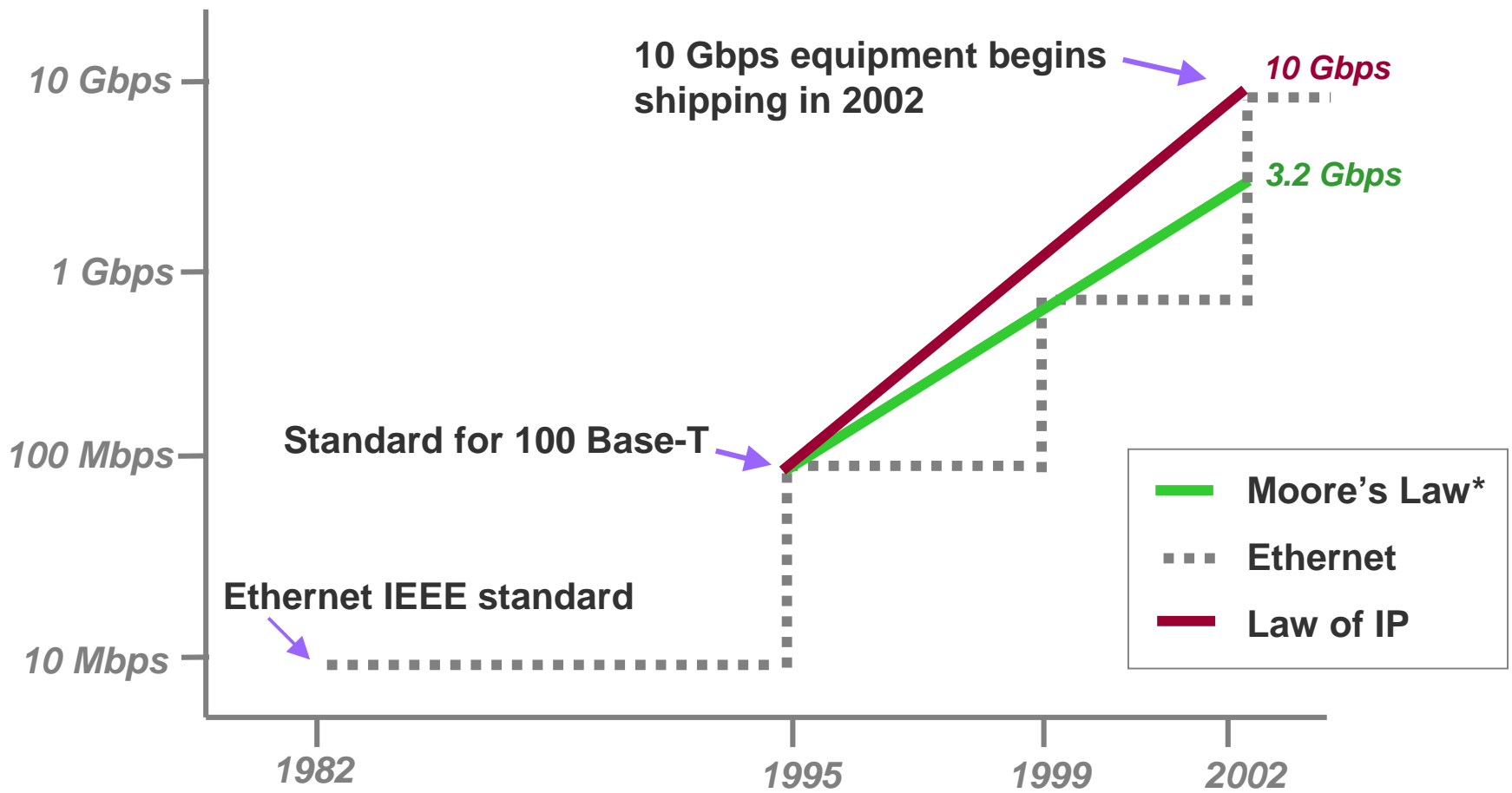


# **Metro Ethernet**

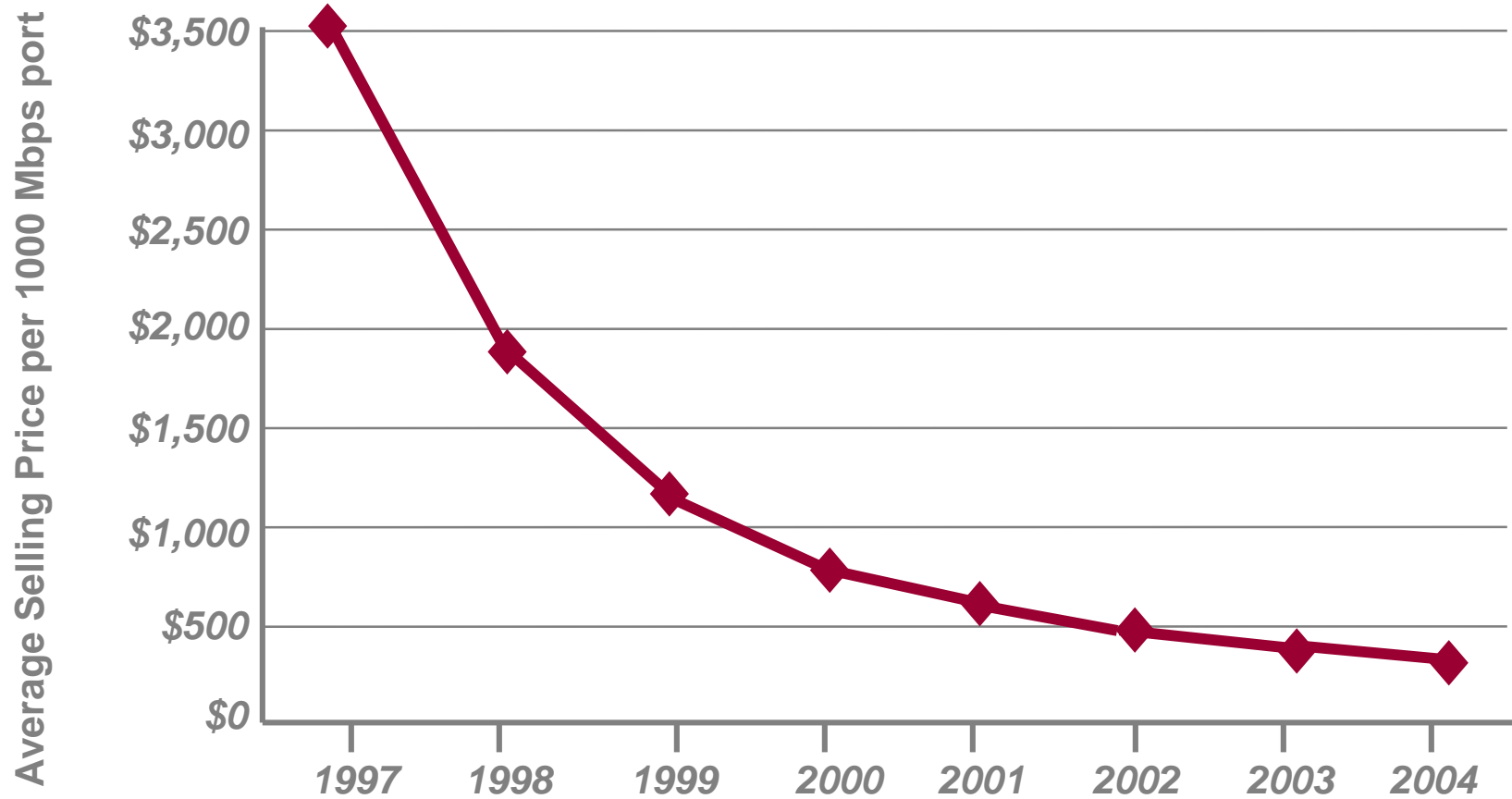
*Has Benefited Greatly from Standards*

# Ethernet Speeds Outpace Moore's Law

## 3x Moore's Law since 1995



# Ethernet Port Costs are Plummeting



# **Metro Ethernet Forum**

## *Overview*

# What is the MEF?

## The Metro Ethernet Forum

*is a non-profit organization dedicated to accelerating the adoption of optical Ethernet as the technology of choice in metro networks worldwide.*

## Who is the MEF?

### MEF members are:

- *Leading service providers*
- *Major incumbent local exchange carriers*
- *Top network equipment vendors*
- *Other prominent networking companies that share an interest in metro Ethernet*

# 65 Members and growing



## Key Objectives

- **Build consensus and unite** *service providers, equipment vendors, and end customers behind optical Ethernet services and transport*
- **Facilitate implementation** *of optical Ethernet standards to accelerate delivery of Ethernet services and make Ethernet-based metro transport networks carrier-class*
- **Enhance worldwide awareness** *of the benefits of optical Ethernet services and Ethernet-based metro transport networks*



# Priorities

The **primary** priorities of the MEF are to define:

- *Ethernet Services* for metro transport networks
- *Carrier-class Ethernet-based metro transport technologies by specifying architecture, protocols and management systems*

The **secondary** priorities of the MEF are to define:

- *Work to be done by other organizations on other transport technologies (liaison activity)*
- *Non-Ethernet interfaces, if not defined by others*

## Focus of Work

- **MEF is working to fill the gaps** *between existing standards needed to standardize complete metro Ethernet networks*
- **Technical work is focused on**
  - *Ethernet service specifications*
  - *Transport network features for protection, QoS and NNIs*
  - *End-to-end management, OAM&P*
  - *User interface definition*



**Learn more and join the MEF**

*Complete a membership application at:*

**[www.MetroEthernetForum.org](http://www.MetroEthernetForum.org)**



**Optical Ethernet for the Metro Market**

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