### **Application Objectives**

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#### Problem

- Extend Ethernet to enable new applications within the home
  - -100m reach

# **Residential Ethernet Applications**

- Networked Audio
  - Both compressed and uncompressed streams
  - Room to room phasing
- Video Distribution
  - Primarily compressed streams
  - High Definition (HDTV) Satellite/Cable Receivers
  - HD Digital Video Recorders
  - Lip-sync with networked audio
- Other

# **Application Requirements**

- Bounded jitter and latency
- Bandwidth allocation
  - Non-interfering streams
- End point synchronization

## **Consumer Requirements**

- Minimal setup and administration
- Ease of use
- Low cost

## Bandwidth Requirements

- HDTV
- HDTV Trickplay
- Uncompressed audio
- Video transfer

20-40Mbps Up to 300X HDTV 1.5Mbps/channel Unbounded

### Summary

• Residential Ethernet should be high performance and user friendly