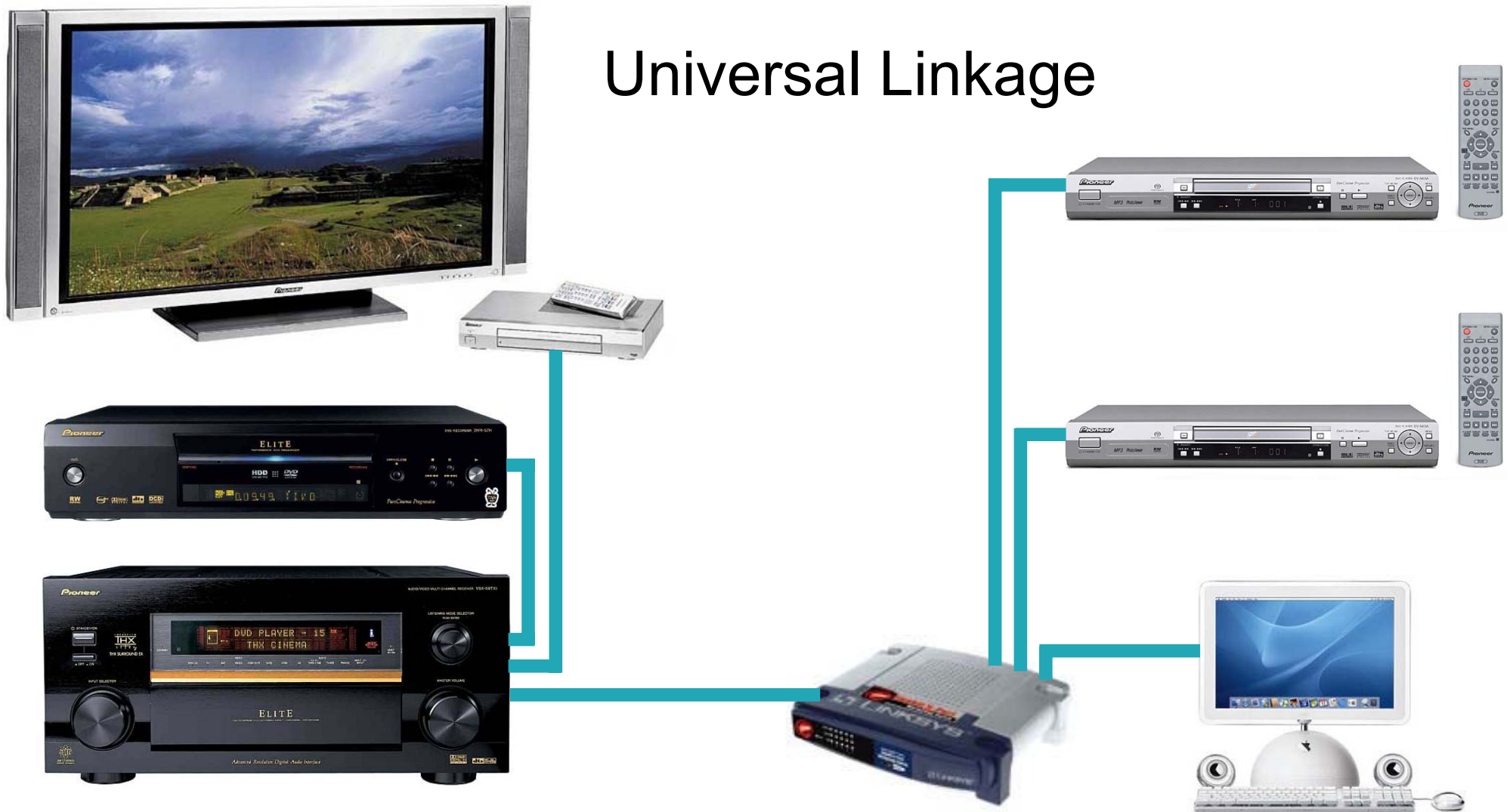


# Residential Ethernet Call for Interest Report



# Consumer Marketplace

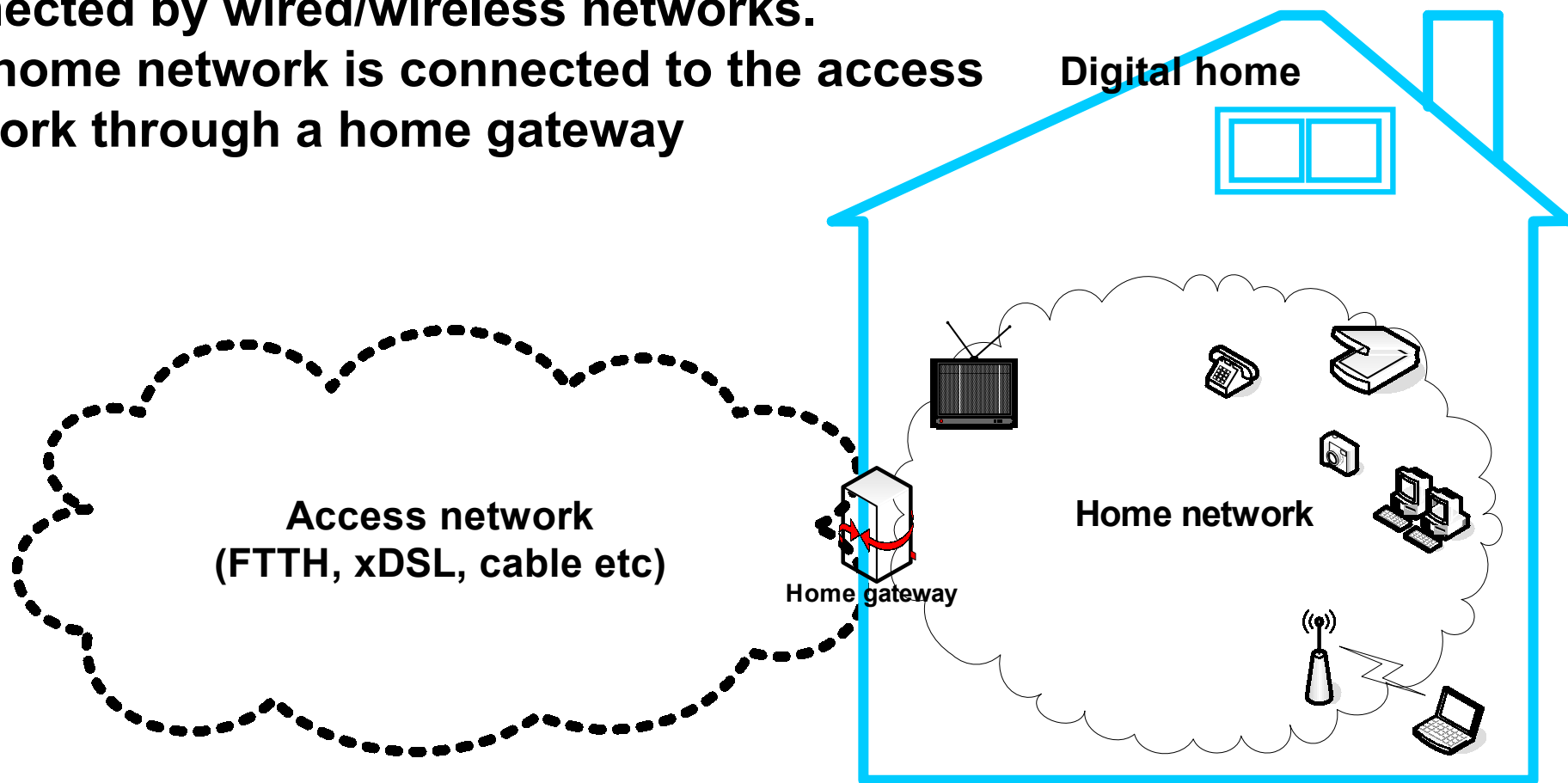
- It's huge!
  - Market for all consumer electronics (\$96 B 2003)
- Pace of new product introduction is rapid
  - Product cycles are ~ 3-6 months (sometimes less)
  - Rapid change in features and performance
- Products are mass produced with tremendous economies of scale
- Enormous market pressure for low-cost high-performance exciting products

# A/V Has Time Sensitive Applications

- **Multi-Room Synchronization**
  - Audio playback synchronized across multiple rooms
  - Video playback synchronized across multiple rooms and maintaining lip-sync
- **Network Trickplay**
  - Multiple HDTVs accessing recorded shows on a Digital Video Recorder
  - Each TV attempts slow/fast playback at same time
- **Jam Session**
  - Multiple instruments with live effects and mixing
  - Turn on instruments and immediately begin playing

# Future digital home in Korea

- Multiple services in the home
- Home appliances and information terminals are connected by wired/wireless networks.
- The home network is connected to the access network through a home gateway



# Ethernet Home Network

## Ethernet Networks Today



- Plug-and-play
- Large bandwidth (up to 10Gb/s)
- Network management
  - Neighbor Discovery
  - Virtual Network Support
  - Traffic prioritization



- No end-point synchronization
- No data/time support
- No bounded latency support
- No bandwidth allocation

# Potential Study Items

## **Study Item 1: What type of synchronization support does a HN need?**

- Clock synchronization at “end-points” only
- Clock distribution
- Over-provisioning for acceptable delay/jitter
- Real time traffic prioritization
- TDM type of service

## **Study Item 2: What constraints should an in-Home Ethernet have?**

- Speeds
- Connectivity

## **Study Item 3: Investigating existing mechanisms**

- 802.3 Clause 64, Clause 65
- 1394 isochronous
- Gibson MaGIC

## **Study Item 4: Interactions with 802.1**

- Ex: 802.1d, 802.1p, 802.1q, etc...

# Call for Interest

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Request 802.3 at the Closing Plenary to form a Residential Ethernet Study Group to develop a standards project proposal (PAR and 5 Criteria) for Residential Ethernet.

Yes: 85    No: 12

# Poll #1

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How many people are in the room?

Est 125

N/A 802.3 Voters



# Poll #2

A Study Group to investigate additions to 802.3 to support new A/V applications in the home

I would support and participate in this Study Group:

Total individuals:   50  

Total 802.3 Voters:   42

# Poll #3

A Study Group to investigate additions to 802.3 to support new A/V applications in the home

My company would support and participate in this study group:

Total companies

Yes: \_\_30      No: 6

# Poll #4 Meeting Planning

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I will attend the Residential Ethernet Interim Meeting in September:

Yes:   45

# Motion

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Request that 802.3 form a Residential Ethernet Study Group to develop a standards project proposal (PAR and 5 Criteria) for Residential Ethernet.

Moved: Richard Brand

Seconded: Steve Carlson

Y\_\_\_\_\_ N\_\_\_\_\_ A\_\_\_\_\_

# Interim Meeting Plans

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I will attend the Residential Ethernet Interim Meeting in September/October:

Those that did not already indicate their intention to attend the interim meeting for Residential Ethernet

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# Call for Interest

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Request 802.3 at the Closing Plenary to form a Residential Ethernet Study Group to develop a standards project proposal (PAR and 5 Criteria) for Residential Ethernet.

Yes: 85    No: 12