Do-it-for-me home network

management

Dina Papagiannaki Intel Labs Pittsburgh

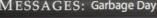
UW/MSR summer institute, July 2009



The Home of 2020























The reality in 2009

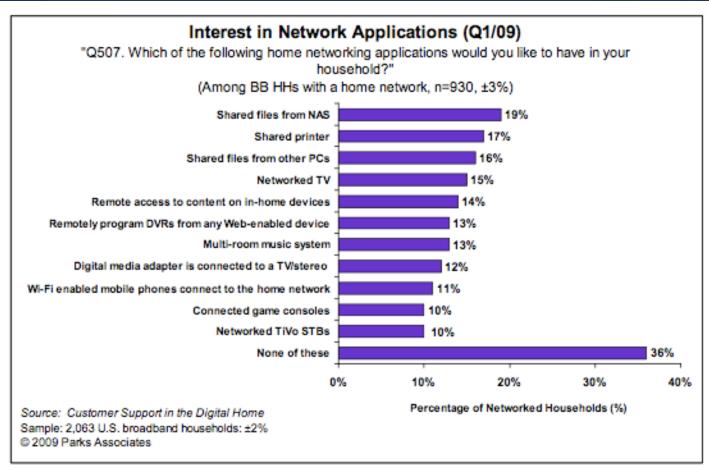


Figure 15 Interest in Networked Applications

Consumers and Home Technology

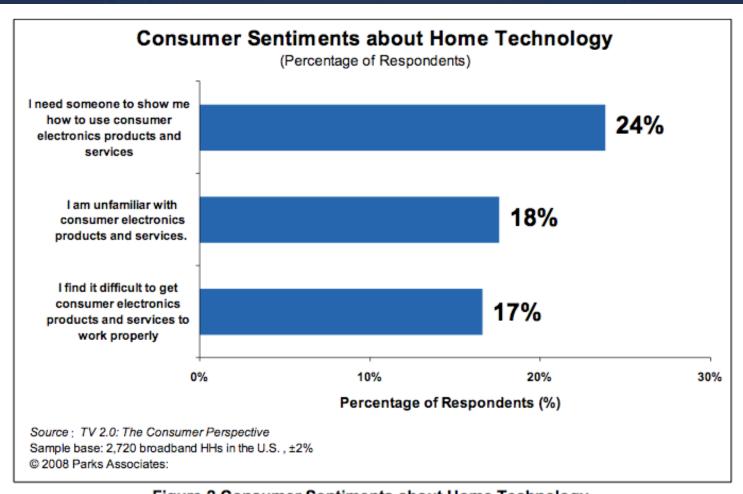


Figure 2 Consumer Sentiments about Home Technology

A Simple Past



Individually & together, maintenance & repair is growing more complicated with an often confusing support system



Providers interested in support services

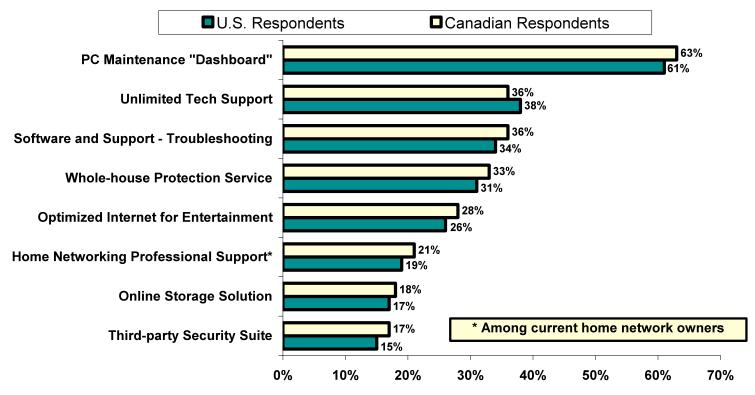
- * 20-50% broadband customer support calls today are unrelated to the broadband service!
- * Each call last 9-25 minutes at \$0.75-0.85/ minute.
- * Total U.S. revenues for digital home support services are projected to grow from \$3.9 billion in 2009 to \$6.4 billion by year-end 2013.

Digital Home Tech Support: Analysis and Forecasts, Parks Associates, May 2009

Consumer Interest in Managing the Digital Home



(Rating of 5-7 on a 7-point scale, where "7" means "extremely interested")



Source: Managing the Digital Home, a survey of 6,116 U.S. and Canadian home Internet users

© 2006 Parks Associates

Software or a Service?

- * Products
 - * SingleClick Systems HomeNet Manager (\$40)
 - * Network Magic by Cisco and Linksys (\$50) http://newsroom.cisco.com/dlls/2009/prod-051209.html
 - * (focused on outage and configuration not performance)
- * AT&T ConnecTech/Verizon ExpertCare/ Plumchoice/GeekSquad

Home computing as a utility (and for the utilities)



Water

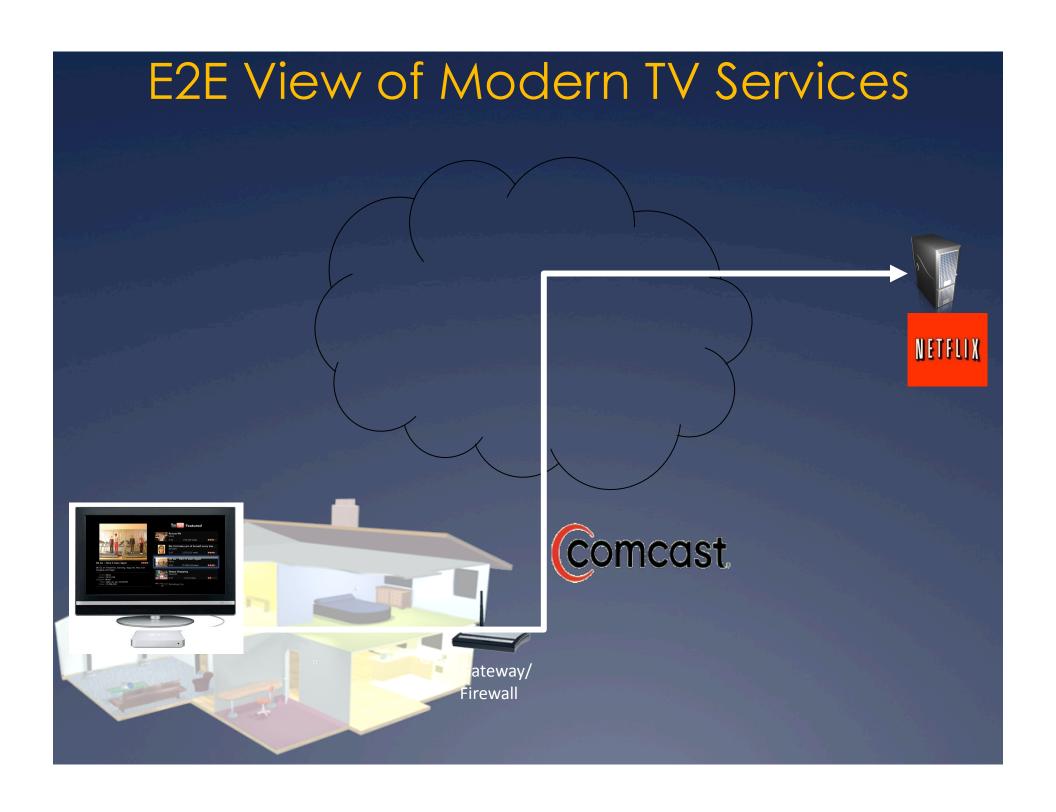


Gas



Electricity

Requires the same level of robustness and support.





Troubleshooting problems NETFLIX comcast Firewall

Choosing a New TV

- * Will it work?
- * What will the picture look like?
- * Does it have the right network interface?
- * Do I have the right home network?
- * Do I have the right Internet Service plan?
- * Do I have the right level of service from the content provider?

Recommendations:

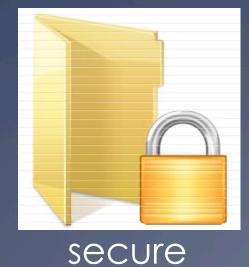


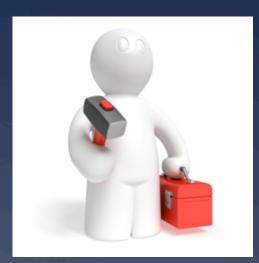


Components to Ease of Use



configure



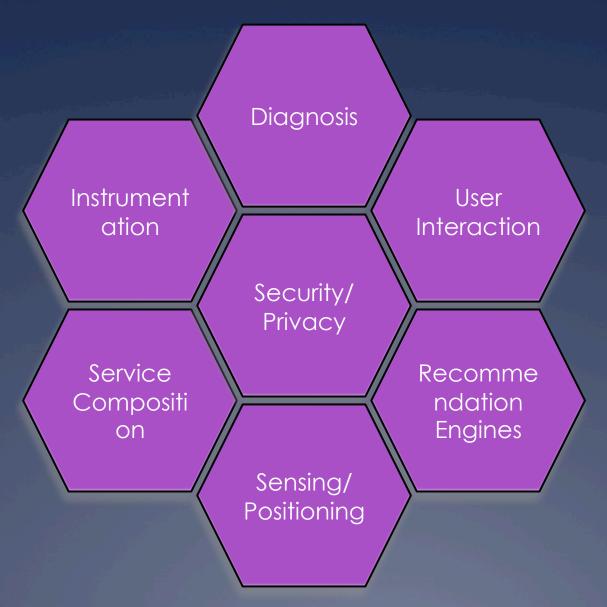


maintain



control

Research areas



Backup