Assessing Retail Competition

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Overview

- Market Characteristics
- Standard Measures of Market Competitiveness
- A Model of Customer Switching
- Alternative Market Share Measures -AMS and NMMS
- Lessons from Telecommunications

Characteristics of a Perfectly Competitive Market

- Many buyers and sellers who are price takers
- No barriers to entry or exit
- Mobility of factors of production
- Perfect information
- Profit-maximizing firms

Characteristics of Network Industries

- Customer is 'attached' to a fixed network
- Network maintained by regulated entity (may also be default provider)
- Customer must be linked with a provider during 'new connect'
- Purchases automatically recur unless the customer switches

Characteristics that Impact Market Share Measurement

- Passive Demand
- Presence of a Default Provider
- Imperfect Information

Unique Characteristics of Electric Markets

- Inelastic Demand
- Peak Characteristics
- Transmission Constraints
- Properties of Electricity

Standard Measures of Market Competitiveness

- Structure
 - Size and number of competitors
- Conduct
 - Pricing and marketing strategies and behavior
- Performance
 - Profitability

Structure Measures

Regular Market Share (unit/revenue)

Alcoa (1945) - Judge Learned Hand stated that 90% of a market "is enough to constitute a monopoly; it is doubtful whether 60 or 64 % would be enough; and certainly 33 percent is not."

Herfindahl Index - Merger Guidelines

If H is over 1800, "highly concentrated." If 1000-1800, "moderately concentrated." Under 1000, "unconcentrated."

Passive vs. Active Demand

- Network Industries provider decision once, continues until switch
- Other Markets, active choice of brand for each purchase

Implications for Market Share

- Traditional analysis implicitly assumes active demand
- Total Market Share overemphasizes past decisions
- Extremely affected by how decision is introduced

Model

- Two stage searching and switching
- H shopping cost
- W incumbent brand equity
- E effort expended to switch

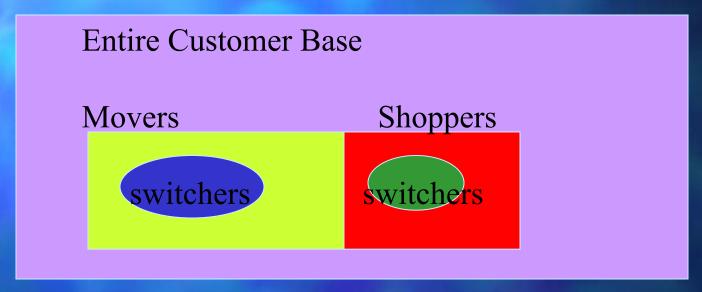
First Stage - Shopping

- Customer will shop if [P^I-E(P^C)]q_i > H + W + E
- So customers shop with higher usage than
- $q_i > (H+W+E)/(P^I-\alpha P^I) = q_x$

Second Stage - Switch

- Customer will switch if [P^I-P^C]q_i > W +
 E
- So customers switch with higher usage than
- $q_i > (W+E)/(P^I-P^C) = q_s$
- Usage M.S. is less than # of customer M.S.

Active MS and New Move MS



- AMS describes real-time decisions, but is difficult to measure.
- NMMS approximates AMS when customers can choose during new-connect

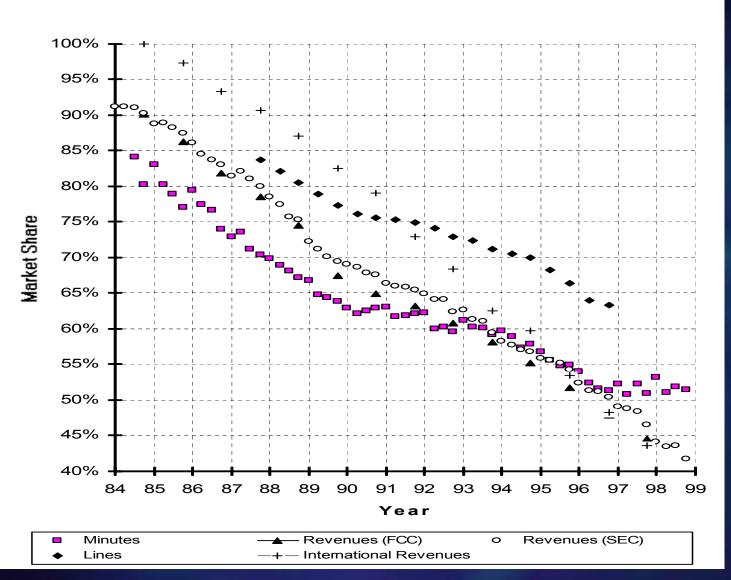
New Move Market Share

- Easy to measure: supplier choices of new connects are easily observable
- Reflects decisions during an 'active choice' time
- 'Real Time' measure showing current activity
- Highlights the importance of operational details (sign-up procedures)

Lessons From Telecommunications

- "Success" Case Long Distance
- "Failure" Case Local

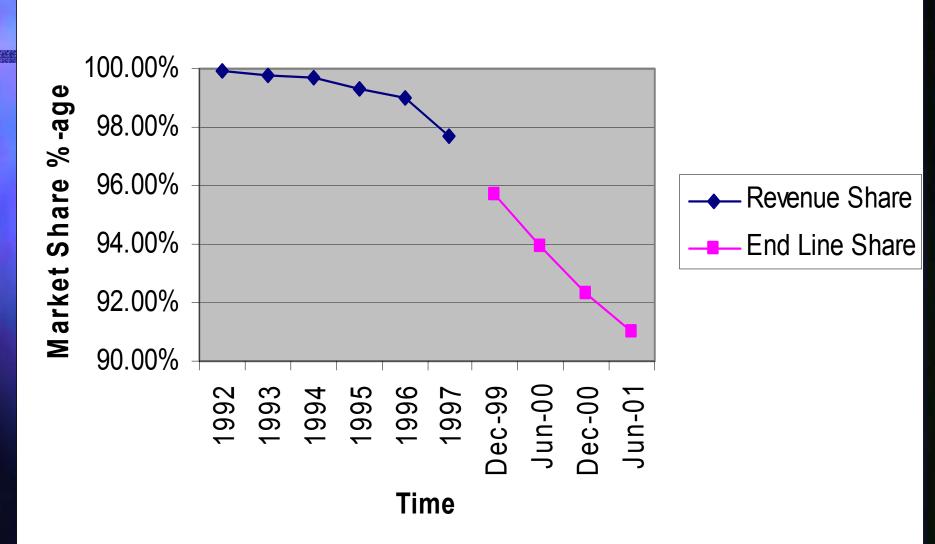
CHART A1.2 - INDICATORS OF AT&T MARKET SHARE



Lessons from Long Distance

- Market share for the incumbent may fall slowly and take a long time to decline to competitive level
- Access charges were discounted to competitors
- Competitive state may mean only a few large providers
- Short run excess profits may earned by incumbent – attracts entry

ILEC Market Share by Time Period



Lessons from Local Telecommunications

- Barriers to entry is the single most important factor in determining competition
- "All competition is local"
- Mere presence of competitors is insufficient

Conclusions

- Traditional Market Share measures do not accurately reflect current decisions
- Active Market Share is a better approach, but is hard to measure
- New Mover Market Share approximates AMS and is easy to measure
- Barriers to entry must be monitored

References

- Loomis, David G. and Eric Malm, "Active Market Share: Measuring Competitiveness in Retail Energy Markets," *Utilities Policy*, Vol. 8 No. 4, 1999.
- Loomis, David G. and Eric Malm, "The Devil in the Details: An Analysis of Default Service and Switching," 20th Annual Advanced Workshop on Regulation and Competition, May 24, 2001.