



Customer Service and Sales

- I. Introduction
 - a. Retail customer service is certainly important but we'll look at B2B
 - b. Timeliness, accuracy, key factors in physical distribution
 - c. Two different perspectives
 - d. Service Viewpoint
 - i. Product, price, and promotion all stimulate / generate demand
 - ii. Place variable doesn't really create demand.
 - iii. Physical distribution is the "other half" of marketing
 - iv. Differentiating between "generating" and "servicing" demand
 - e. Creation Viewpoint
 - i. Physical distribution helps create demand through availability, prompt deliveries
 - ii. Back to competition at the augment level – just creating a product isn't enough.
 - iii. Requires having a deep understanding of customer service for good performance
- II. Customer Service
 - a. Quality of performance in physical distribution
 - b. Want to reduce customers' cost of ownership
 - c. Measures
 - i. Availability of Inventory: What percent of items a customer orders can be shipped
 - ii. Total Order Cycle Time: From placing order to receiving it
 - d. Cost Problem
 - i. Why not always shoot for perfect service?
 - ii. Costs money! Not profitable
 - iii. Even if items have 95% fill rate individually, if a customer orders 10 items it's $(0.95^{10}) = 59.9\%$ availability.
 - iv. Weighted expected fill rate – Weighted average of probability of filling order by frequency of order combination
 - e. Cycle Time
 - i. Hard to manage – many components
 - ii. Purchasing – all at customer end
 - iii. Order Processing
 - iv. Distribution Center
 - v. Transportation
 - vi. Receiving – back at the customer end again
 - vii. Customers care about purchasing and receiving even though there's nothing suppliers can do about either.
 - viii. Can, however, integrate into purchasing and receiving in an information sense (for big customers) via JIT.
 - f. Poor Metrics of Performance
 - i. We promise "on-time" – that's not measurable
 - ii. "90% of orders within two days" is much better
 - iii. Good: Phone won't ring more than twice before someone answers
 - g. Expanded concept of customer service
 - i. Distribution system flexibility
 - ii. Distribution system information (advance notice of changes, et cetera)
 - iii. Recovery from malfunctions
 - iv. Post-sale product support
 - h. Budget
 - i. Want to spend on CS up to the point where marginal revenue = marginal cost.
 - ii. Same as with any other budgeting problem.
- III. Sales
 - a. Want to determine the optimum territorial design
 - b. Want to create "even" territories for three salespeople, but not all customers are equal.

- c. Know distance from salesperson's home base and potential volume to be derived from each customer by each salesperson
- d. Want to roughly equalize sales opportunity within each territory.
- e. Minimize Travel Time
 - i. Will want more frequent contact with high potential customers.
 - ii. Weight travel time by volume.
- f. Equalize Sales Potential – measured directly from estimates