Customer Service
Supply Chain
Management
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Customer Service
Supply Chain Management
Models for Achieving Customer Satisfaction, Supply Chain Performance, and Shareholder Value

Alexandre Oliveira
Anne Gimeno
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**About I.B.S.**

The Brazilian Institute of Supply Chain Management Professionals, a leading regional professional association since 2007, benefits its members via technical events, courses, and an annual congress in São Paulo, Brazil.

I.B.S. promotes knowledge transfer with other knowledge centers around the world. The Committee for International Cooperation (CCI) is the structure that builds partnerships for technical cooperation and knowledge exchange with foreign institutions. Ideal partners are national or regional professional associations or universities.

You can find more information about I.B.S. at www.ibpsc.net/IBS.
Preface

This book presents the Customer Service Management Model, a dynamic mechanism developed to evaluate the interactions present in the customer service environment. This model considers several interactions:

- The balance between customer’s service level expectation and the level of service actually hired from a given supplier
- The correlation that compares the customer’s expectation in relation to the level of service that is to be delivered and the perception about the actual service level
- The difference between the official contracted level of service and the process performance actually delivered to the customers

To translate customer needs into a customer-centric business, it is necessary for the relationships between supplier and customer to have the maturity to promote change management and to review the balance of the following forces: product, customer, service and process. Customer-centric strategies offer the best solution based on personalized packages of products, service, support, education, and consulting.

Through people it is possible to manage knowledge, triggering the virtuous cycle that creates and sustains the value-added innovative environment that leads the business to its ultimate goal: delivering value to the shareholders and stakeholders. The balance between operational activities and strategic influence represents an organizational challenge because it requires people diversity within a small group of people. The customer service department tends to have few thinkers and innumerable operators. To address this reality, the
authors present the Customer Service Balanced Organization Model (CSBO Model), which is basically founded on two pillars: an order-management cell and a compliance cell.

Authors’ Note

Over the years, the common understanding of world-class operations has evolved from the simplistic, focused management of functional silos to a comprehensive approach of supply network management as the driver to deliver ultimate shareholder value. Although many commentators have tried to describe this evolution, most have failed to properly address the supply chain’s fundamental building block: knowledge management. Therefore, their analyses also overlooked the only element that delivers long-term sustainable shareholder value: people.

We are writing five books for Pearson that cover the most important features of this evolutionary journey. These books will provide detailed roadmaps and models to diagnose, implement, and sustain world-class supply chain network management in organizations of all types:

- A Guide to Supply Chain Management: The Evolution of SCM Models, Strategies, and Practices (an e-book) introduces the core concept of knowledge management as the only strategy capable of steering supply chains networks management to successfully compete in highly competitive markets. This introductory work reviews supply chain practice from its earliest stages and presents reference models that support our view of this discipline as a business driver to deliver shareholder value.

This book introduces the Supply Network Alignment Reference Model (SNAR Model), which organizes the supply chain
networks into knowledge areas that enable accurate decision making from the strategic level to daily management decisions. This book also introduces the *Supply Network Knowledge Management Maturity Roadmap* (SKMap). Before the development of a supply network reference model, it was necessary to understand the intermediate evolutionary stages of knowledge management within the supply chain. The SKMap organizes and correlates several strategies and practices according to a unique structure that allows you to understand how to face the future challenges of managing supply chain networks in fluid and complex environments.

- *Supply Chain Management Strategy: Using SCM to Create Greater Corporate Efficiency and Profits* explores how supply chain management delivers shareholder value. The introduction covers topics such as the supply chain master plan, cash-management cycle, purchase-to-pay cycle, and manufacturing-to-revenue cycle. This book introduces the *Supply Network Business Value Model* (SNValue Model) and discusses the supply chain mechanisms that generate value for the business. It addresses the following topics: enabling sales volume growth, enabling market-share growth, reducing revenue cycle, reducing lost sales, supporting marketing and sales initiatives, enabling customer experience by improving customer perception, managing the cost to serve, offering differentiated service packages, enabling margin growth, reducing cost of sales, balancing asset management, and balancing service level and cost structure.

This book also presents the *Business Value Impact Chart* (BV Chart) and the *Balanced Control Panel* (BC Panel). The third part of the book covers how each of the SNAR Model knowledge areas can contribute to each of the factors that enable shareholder value. The tool used to establish these relationships is the BV Chart.
• *Executing the Supply Chain: Modeling Best-in-Class Processes and Performance Indicators* covers the supply network governance cycle and explains the mechanisms needed to understand the business through process mapping, risk analysis, and the definition and use of performance indicators for all areas directly or indirectly related to supply chain management. The second part of the book presents how each of the SNAR Model knowledge areas can be monitored and controlled by performance indicators. Other chapters present real-world metrics from companies of different sizes, sectors, and countries, and discuss benchmarking techniques.

• *Customer Service Supply Chain Management: Models for Achieving Customer Satisfaction, Supply Chain Performance, and Shareholder Value* focuses on the role of customer service as a strategic integrator for differentiated supply chain management. This book presents the *Customer Service Management Model* (CSM Model), a dynamic mechanism developed to evaluate the interactions present in the customer service environment. The model presents four pillars and provides a quantitative approach to understand the connection between them:

1. Customer Service Level Expectation
2. Supplier Service Level: Hired Performance
3. Customer Service Level Perception
4. Supplier Service Level: Delivered Performance

Although the book discusses some traditional customer service elements such as pre-transactional, transactional, and post-transactional service, the most important topics are customer service strategies, managing service levels, and customer service organization, respectively.
Managing Supply Chain Networks: Building Competitive Advantage in Fluid and Complex Environments presents a solid roadmap for managing knowledge within organizations across all industries. You learn how to build, implement, and sustain long-term knowledge management as a consistent strategy to deliver business value through supply chain innovation leadership.

This book presents the Supply Network Governance Diamond Model (SNG Diamond) which is executed through...people! The SNG Diamond Model is a common governance structure focused on the long-term success of the entire supply network that connects knowledge management and risk management and reviews policies that promote the innovative environment required to face the challenges of managing fluid and complex supply networks.
Customer Service Environment

According to the Supply Chain Knowledge Management Maturity Roadmap (SKMap)\(^1\), illustrated in Figure 1.1, tactic integration is the first movement toward a solid supply chain governance structure. Once tactic integration has matured, leaders are capable of interpreting the signals generated within the organization and promoting a solid strategic alignment of the supply chain function with corporate governance. These connections are sustained by five pillars:

1. Customer service
2. Project planning
3. Human resources
4. Sustainability
5. Information technology

At the tactic integration level, the organization strengthens several functional areas and creates the architecture capable of aligning supply chain building blocks with major business objectives. According to the Supply Network Alignment Reference Model (SNAR Model), illustrated in Figure 1.2, these building blocks are planning logistics and synchronous operations (Oliveira and Gimeno, 2014).

Figure 1.1 Supply Chain Knowledge Management Maturity Roadmap (SKMap)
Moving on to SKMap’s fourth maturity stage (supply chain governance), three major targets complement tactic integration:

1. To establish and lead a supply chain risk management strategy
2. To define which key knowledge areas must be acquired
3. To synchronize supply chain strategies to corporate governance goals
Corporate governance is a complex discipline. A simple approach to understand the concept of governance lies on balancing performance, risk and cost. Usually when the organization maximizes either one of these elements, the others will not achieve minimum required standards. This balancing exercise is continuous because most businesses are constantly under pressure due to both permanent and changing factors.

Customer service plays a major role in the tactic-alignment dynamics. Most publications introduce customer service as a set of activities categorized into pre-transactional, transactional, and post-transactional. This approach induces the readers to believe there is only an operational level for customer service, when its contribution to the organization lies within the tactical and strategic levels.

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**Figure 1.3** Customer service levels

This book introduces the Customer Service Management Model (CSM Model), a tool developed by the authors to evaluate the interactions present in the customer service environment. The model presents four pillars and provides a quantitative approach to understand the connection between them:
1. Customer’s service level expectation
2. Supplier’s service level (hired performance)
3. Customer’s service level perception
4. Supplier’s service level (delivered performance)

The following figure indicates that it is possible to assign scores to each pillar. The methodology used to classify each pillar should be jointly agreed between supplier and customer. It shows six correlations (1, 2, 3, 4, 5, and 6), which are analyzed more fully in Chapter 2, “Customer Service Management Model.”

![Figure 1.4 CSM Model, correlation grid](image-url)
Figure 1.5 illustrates the output of the CSM Model. It compares:

- If the customer hires the service level equivalent to its expectation
- If the customer’s perception of the service level is aligned to previous expectation
- If the supplier is delivering the service level as hired by the customer

![Figure 1.5 CSM Model, analysis panel]

The combination of these factors defines an aggregated risk index. The lower this percentage, the higher the risk to which the supplier is exposed. The lower part of the panel classifies the supplier’s ability to manage the customer’s expectation. Once again, the fields are illustrated as lines 4, 5, and 6 in the correlation grid (see Figure 1.4).
The performance leverage compares customer’s perception to actual process performance, and the contract leverage compares customer’s perception to the actual hired service level. Finally, process commitment compares supplier’s actual performance to the hired service level. The Customer Service Management Model is detailed in the following chapters.

These correlations interact dynamically and define the efficacy of customer service strategies. However, customer service should initially strengthen the connections with a few preferred customers and with commercial structures within its organization, known as the primary boundary.

**Figure 1.6** Customer service primary boundary

Despite the basic need of the primary connections, customer service only delivers long-term strategic benefits to the organization as it creates communications channels within various areas of the business.

---

Figure 1.7 Customer service maturity³

The ultimate goal of any organization is to deliver value to shareholders. A general model introduces three basic mechanisms that enable the creation of shareholder value: increase sales volume, increase sales revenue, reduce costs. The logical structure is quite simple:

- [1] Volume sold (quantity of products or service)
- [2] Amount paid per unit (product or service)
- [4] Cost to serve

Note that this basic algorithm has a few simplifications. For example, the cost-to-serve line aggregates all costs and expenses without segmentation. This includes imposts and taxes. We could use more sophisticated models; however, this format is well adapted to the objectives of this book.
The Supply Network Business Value Model (SNValue Model) suggests three building blocks to create shareholder value (Oliveira and Gimeno, 2014):

1. Enabling sales volume growth.
   The main purpose of this mechanism is to increase the volume sold by the company. The volume increase generates increased revenues but the impact on profitability can vary greatly. If the strategy to increase volume defines equally increased costs, then operations profitability may reduce. However, so far when “enabling sales volume growth” is cited, the reader will only consider the number of units traded despite eventual cost consequences. The main policies of this strategy are as follows:
   • Enabling market-share growth
   • Reducing revenue cycle
   • Reducing lost sales
   • Supporting marketing and sales initiatives
   • Enabling customer experience

2. Enabling customer experience.
   The aggregate set of policies on “enabling customer experience” seeks to change customer perception positively. Customers who see greater value in the product or service offered to them are more likely to spend more, thus increasing revenue and profitability. The main policies of this strategy are as follows:
   • Adding value to the customer
   • Enhancing cost to serve
   • Adjusting the right service at the right cost

3. Enabling margin growth.
   The difference of this mechanism in relation to the two previous ones is in the focus given to cost reduction and elimination
of general expenses. The main policies of this strategy are as follows:

- Reducing cost of sales
- Balancing asset management
- Balancing service level and cost structure

The complete SNValue Model integrates all three mechanisms into a coordinated effort to maximize gains to the organizations. The simultaneous application of various policies has a diffuse effect on the final result. Therefore, companies often do not capture the exact correlation between the implementation of a specific action and its outcome. The quantification of the cause-effect relationship is very limited in most cases.

However, the organization may identify how each process will contribute in order to add value. A simple tool to support this exercise is the Business Value Impact Chart (BV Chart). The structure of the BV Chart has four key elements; the first is the process identification according to the SNAR Model coding system (see Figure 1.9).

The second element consists of understanding how the selected process (for example, customer service, SNAR 01.03.01) influences each business value dimension. Although this analysis is business specific, there is some adherence within several different industry sectors.
### SNAR Model Coding System

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<td>01.05.03</td>
<td>Supply Chain Risk Management</td>
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**Figure 1.9** SNAR Model coding system
### BUSINESS VALUE IMPACT CHART - SNValue Model

Based on: SUPPLY NETWORK ALIGNMENT REFERENCE (SNAR) MODEL

| SNAR 01.03.01 Customer Services |

<table>
<thead>
<tr>
<th>POTENTIAL IMPACT</th>
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<td>Low</td>
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</table>

#### 1. ENABLING SALES VOLUME GROWTH
1.2 Enabling market-share growth
1.3 Reducing revenue cycle
1.4 Reducing lost sales
1.5 Supporting marketing and sales initiatives

#### 2. ENABLING CUSTOMER EXPERIENCE
2.1 Improving customer’s perception
2.2 Managing cost to serve
2.3 Offering segmented packages

#### 3. ENABLING MARGIN GROWTH
3.1 Reducing cost of sales
3.2 Balancing asset management
3.3 Balancing service level and cost structure

---

**Figure 1.10**  BVChart for SNAR 01.03.01

The BVChart for customer service obviously has a tremendous potential impact on enabling customer experience despite the fact that this influence is mostly associated with the definition of strategies and policies. The customer service role is also to steer customer culture within the organization and facilitating or incentivizing other areas to perform accordingly.

The third element is the internal evaluation (diagnosis) of the processes. To capture the real contribution requires maturity and represents the most difficult step within the methodology.
Each dimension of the SNValue Model has to be audited and evaluated against set expectations. The example illustrated in Figure 1.12 indicates that this company is fully delivering the potential benefits of the margin growth pillar while the benefits from both the sales growth and customer experience pillars are only partially delivered.

The last element in the BVChart is the graphical representation of the SNValue dimension. It compares the expectations to a real situation.
Figure 1.12 BVChart graph
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