

# *An Exploration of Sales Policy Management Models in the Era of the Internet of Things (IoT)*

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**Keywords:** Internet of Things, Sales Policy Management, Data Security, Organizational Adaptation, Customer-Centric Strategies

**Abstract:** The eruption of the Internet of Things (IoT) heralds a transformative era in sales policy management, intertwining technological innovation with strategic adaptation. This review elucidates the trajectory of sales policies amidst the burgeoning IoT era, delineating the implications, strategies, and challenges emergent in this digital epoch. Through a meticulous exploration of traditional versus IoT-driven sales policy management models, and tangible insights derived from diverse case studies across B2C and B2B models, this review sheds light on the tangible and potential implications of IoT within sales and marketing realms. Further, it prognosticates future trends, forecasting the integration of emerging technologies like AI and Blockchain within IoT-driven sales policies, and anticipates the ensuing challenges and solutions pertinent to data security, privacy, and organizational adaptation. Conclusively, the synthesis of IoT within sales policy management envisages a future that is not only technologically advanced but also strategically and ethically nuanced, demanding a harmonization of technology, strategy, and ethics as organizations navigate through the interconnected digital terrains of the future.

## 1. Introduction

The proliferation of the Internet of Things (IoT) has significantly shifted paradigms across various industries, reshaping traditional models and introducing innovative approaches to the sales domain. It has not only automated and streamlined operations but also redefined strategies and policies governing the sales processes and management. As the digital age progresses, we witness a transformation characterized by a fusion of physical and digital realms, driving organizations to reevaluate and redesign their sales policies to navigate the evolving market dynamics effectively.

### 1.1 Background and rationale

The integration of IoT in sales policy management has become pivotal, given its profound impact on data collection, customer interaction, and overall sales execution. The capabilities of IoT to facilitate seamless connectivity among devices provide organizations with enhanced accessibility to customer data and insights. This increased data availability and improved customer connectivity allow for the development and implementation of more informed and customer-centric sales

policies. The inception of this research lies in comprehending how this technological evolution has and will continue to redefine sales policy management models and their implementation in a market that is increasingly becoming digitally interconnected<sup>[1]</sup>.

## **1.2 Objectives of the review**

This review seeks to unearth the transformations in sales policy management engendered by IoT, identifying the pivotal changes, and understanding their implications in a comprehensive manner. The primary objectives encompass exploring current IoT-based sales policy management models, investigating their effectiveness, and foreseeing potential future developments within this context. Moreover, it aims to delineate the opportunities and challenges emanating from the adoption of IoT in managing sales policies.

## **1.3 Research questions**

Key research questions to guide this review include: How has the IoT influenced current sales policy management models? What are the observable impacts of incorporating IoT into sales policies and processes? What potential future trends in IoT-driven sales policy management can be anticipated? How do organizations navigate the challenges and harness the opportunities presented by IoT in sales policy management?

## **1.4 Methodology**

Employing a systematic review methodology, this paper will explore, analyze, and synthesize existing literature and case studies related to IoT and sales policy management. Both qualitative and quantitative data will be integrated to provide a holistic perspective, ensuring thorough exploration and analysis of the subject matter. Utilizing rigorous selection criteria, only pertinent and credible sources will be included, ensuring the reliability and validity of the findings derived throughout the review. This structured approach will pave the way for a comprehensive exploration of the transformations, challenges, and implications encompassed by the advent of IoT in sales policy management, providing valuable insights and direction for future research and practical applications in the domain.

## **2. Literature Review**

The onset of the Literature Review embarks upon a critical exploration of existing knowledge, delineating the evolutionary trajectory of sales policies amidst the burgeoning advancements of technology, particularly emphasizing the advent and proliferation of the Internet of Things (IoT) in the realm of sales and marketing. Noteworthy is the metamorphosis of sales policies that have undergone substantial transformations, migrating from conventional strategies to increasingly sophisticated, data-driven, and customer-centric approaches due to the influx of technological innovations.

### **2.1 Evolution of sales policies in the technological era**

The technological epoch witnessed a paradigm shift in the operational and strategic facets of sales policies, transmuting from a product-centric approach to being remarkably customer-oriented. The dawn of technologies such as Customer Relationship Management (CRM) systems, Artificial Intelligence (AI), and Data Analytics catalyzed this transformation by providing organizations with

the capabilities to comprehend and anticipate customer needs, preferences, and buying behaviors in an unparalleled manner<sup>[2]</sup>. These technologies have not only facilitated enhanced customer data management but also enabled organizations to devise and implement sales policies that are profoundly aligned with customer expectations and market dynamics, thereby offering personalized experiences and solutions to customers. Consequently, sales policies began to progressively encapsulate strategies that leveraged technological tools for customer acquisition, retention, and loyalty building, thereby manifesting a scenario where technology became an indispensable component of sales and marketing strategies<sup>[3]</sup>.

## **2.2 Impact of IoT on sales and marketing**

Navigating through the maze of technological innovations, the Internet of Things (IoT) emerged as a formidable force, exerting a profound impact on sales and marketing, thus extending its influence onto sales policy management. The IoT has redefined connectivity and data exchange by interlinking devices, platforms, and consumers, thereby establishing an interconnected digital network that facilitates real-time data access, analysis, and utilization<sup>[4]</sup>. Sales and marketing, in this context, have been significantly propelled by IoT through enhanced customer insights, personalized marketing initiatives, predictive analytics, and streamlined operational processes. The embedding of IoT in sales policies has empowered organizations to innovate in product offerings, marketing strategies, and customer engagement, which is manifested through personalized content, targeted advertising, predictive customer service, and through the provision of tailored solutions, all underpinned by a vast array of interconnected devices and platforms<sup>[5]</sup>.

## **2.3 Previous studies on sales policy management**

Traversing through the repository of existing literature unveils a panorama of studies focusing on sales policy management, explicating various models, strategies, and their respective implications. Traditional models, as highlighted in earlier studies, emphasized hierarchical structures and linear processes, predominantly focusing on quantitative targets. Contrarily, contemporary studies underscore the vitality of adapting sales policies to the evolving technological landscape, advocating for models that are flexible, adaptive, and customer-centric. However, despite the substantial body of knowledge, there appears to be a lacuna in the literature that intricately explores the confluence of IoT and sales policy management, particularly focusing on its long-term implications, challenges, and opportunities across diverse sectors<sup>[6]</sup>.

## **2.4 Gaps in current literature and research**

While the previous studies have significantly contributed to understanding sales policy management in the light of technological advancements, discernible gaps linger, especially concerning the IoT. Firstly, although the impact of IoT on operational facets of businesses has been discussed, comprehensive exploration regarding its specific influence on the formulation, implementation, and management of sales policies appears somewhat nebulous. Moreover, the existing literature tends to be segmented, focusing either on technological aspects or policy management, lacking an integrated approach that synergizes both elements cohesively. Additionally, despite acknowledging the significance of IoT in enhancing customer experiences and operational efficiency, scant literature illuminates the practical challenges, ethical considerations, and strategic adaptations necessitated by IoT integration in sales policy management<sup>[7]</sup>.

Thus, this review endeavors to bridge these gaps, amalgamating technological and managerial perspectives, providing a holistic examination of IoT-driven sales policy management, and

exploring its multi-dimensional impacts, thereby contributing to both academic and practical domains by offering insights and guidance in navigating the sales policy management landscape in the IoT era. This exploration, grounded in previous research yet striving to extend beyond, aims to enlighten and guide future research, policy formulation, and practice in the intricate and dynamic domain of sales policy management amidst the technological advancements symbolized by the IoT.

### **3. The Internet of Things (IoT) and Its Significance**

Emerging as a revolutionary force within the technologically driven business environment, the Internet of Things (IoT) propounds a novel paradigm, intertwining the physical and digital worlds through a network of interconnected devices, thereby facilitating seamless data exchange and enhanced connectivity. Enveloping various sectors, including sales and marketing, IoT encompasses a myriad of applications, driving organizations to innovate and adapt to the burgeoning digital landscape.

#### **3.1 Definition and key components**

IoT is characterized as an expansive network of interlinked physical objects that utilize embedded sensors, actuators, and other devices which are capable of collecting and transmitting data over the internet. This definition reflects the core essence of IoT: the creation of an intelligent network where data flows seamlessly between devices, platforms, and users, yielding a plethora of possibilities for data utilization, analysis, and application. The key components of IoT encompass the devices themselves (which can be anything from home appliances to industrial machines), the connectivity which ensures devices can communicate (including hardware, such as routers, and technologies, like cloud computing), data processing, and user interface, enabling the data to be usable and actionable in a meaningful way. Through its symbiotic interplay of devices, data, and connectivity, IoT gives birth to a nexus where information becomes an actionable tool, paving the way for informed decision-making, predictive analysis, and strategic planning across various domains, including sales and marketing<sup>[8]</sup>.

#### **3.2 The Role of IoT in sales policy and management**

Inextricably entwined with the realms of sales policy and management, IoT introduces a multifold of possibilities and challenges, reshaping the way organizations strategize, operate, and interact with their customer base. Firstly, the abundance of data derived from a multitude of interconnected devices provides organizations with unparalleled insights into customer behaviors, preferences, and purchase patterns. This granular, real-time data enables organizations to formulate and implement sales policies that are not only reflective of current market dynamics but are also anticipatory of future trends. Furthermore, IoT enhances customer experiences by facilitating personalized interactions, targeted marketing, and predictive customer service, thereby aligning sales policies with the increasingly exigent demands of the contemporary consumer.

Concurrently, IoT plays a pivotal role in streamlining operational processes within sales management by enabling real-time inventory management, automated order processing, and enhanced communication channels, thus ensuring that sales policies are effectively translated into actionable strategies. Moreover, the interoperability facilitated by IoT across various platforms and devices ensures that sales policies can be seamlessly integrated, managed, and monitored across the entire organizational spectrum, thereby enhancing efficacy, consistency, and adaptability within the dynamic market environment<sup>[9]</sup>.

The role of IoT in shaping sales policy and management is notably multidimensional, infusing

both strategic and operational facets with enhanced data-driven capabilities, augmented customer insights, and amplified connectivity. While it propounds numerous opportunities for innovation, personalization, and efficiency, it simultaneously necessitates organizations to navigate the complexities, challenges, and ethical considerations associated with data management, privacy, and security, thereby demanding a meticulous and balanced approach in leveraging IoT within sales policy management. This intricate interplay between technological capabilities and strategic management, mediated by IoT, encapsulates a realm where organizations are continuously driven to innovate, adapt, and evolve amidst the oscillating waves of technological advancements and market dynamics. Consequently, a thorough understanding and strategic integration of IoT within sales policy and management emerge as imperative in navigating the path towards sustainable success and competitive advantage in the digitally interconnected business landscape.

#### **4. Sales Policy Management: Traditional vs IoT-Driven Models**

In a constantly evolving technological environment, the differentiation and comparison between traditional and IoT-driven sales policy management models become vital to comprehend the evolution and to foster progress within business and marketing domains.

##### **4.1 Traditional sales policy management models**

Traditional sales policy management models primarily navigated through a structured, often hierarchical approach, wherein policies were crafted, often in a top-down manner, with a staunch focus on product sales, targets, and market penetration. These models generally exhibited a firm structure with policies primarily pivoted around pricing, distribution, sales territories, and targets. The customer interaction was relatively straightforward and predominantly relied on conventional communication channels like direct sales, telecalling, and physical outlets. Moreover, data utilized for policy-making was often historical and utilized to forecast future trends with limited predictive accuracy. The assessment, adaptation, and evolution of sales policies were periodically executed, often lacking the agility to adapt to swift market changes and real-time customer feedback.

##### **4.2 Innovations in sales policy management due to IoT**

Contrastingly, the infusion of IoT into sales policy management models heralds a new era of interconnectedness, data-driven strategies, and customer-centric policies. The IoT-driven models advocate for a paradigm wherein policies are incessantly informed by a plethora of real-time data sourced from various interconnected devices and platforms. The connectivity and comprehensive data availability enhance the adaptability and responsiveness of sales policies to dynamically changing market environments and customer preferences. Moreover, IoT enables organizations to personalize customer experiences meticulously, deploying data insights to formulate policies that not only cater to market demands but also anticipate future trends through predictive analytics. Notably, it transcends boundaries, allowing organizations to orchestrate global sales policies through seamless data and resource integration across various geographical locations.

##### **4.3 Comparative analysis**

In juxtaposition, traditional and IoT-driven sales policy management models present stark contrasts and nuanced insights, elucidating the evolutionary trajectory in the domain. While traditional models offer robustness and structured approaches, they often lack the flexibility and comprehensive data utilization that characterize IoT-driven models.

The traditional models, whilst establishing clear, predefined strategies and boundaries, often find limitations in their capacity to adapt to rapidly shifting consumer behaviors and market dynamics, predominantly due to their retrospective data utilization and linear communication channels. The hierarchical nature, whilst providing clear delineation of roles and responsibilities, may inhibit swift decision-making and policy adaptations, crucial in the modern, fast-paced market.

Conversely, IoT-driven models, with their emphasis on real-time data utilization, predictive analytics, and enhanced customer connectivity, offer organizations the capability to create policies that are not only reactive but also proactive in navigating current and future market trends. However, these models also bring forth challenges related to data security, privacy, and ethical considerations, necessitating meticulous management and regulatory compliance<sup>[10]</sup>.

## **5. Case Studies: IoT-Driven Sales Policy Management in Action**

The advent of IoT has cascaded across various business models, engendering nuanced adaptations, strategies, and outcomes. Explicating this through tangible instances provides a palpable understanding and insights into its practical implications, strategies, and challenges across different domains.

### **5.1 IoT applications in B2C models**

Example: Smart Home Device Manufacturer

In the realm of B2C, consider a company specializing in smart home devices, leveraging IoT to elevate customer experience and streamline operations. Through IoT, devices autonomously communicate with each other and the manufacturer, enabling data accumulation regarding usage patterns and potential maintenance needs. This real-time data aids in formulating sales policies that cater to evolving customer needs and market trends. Additionally, predictive maintenance, enabled by IoT, enhances customer satisfaction and brand loyalty by preemptively addressing issues before they escalate, thereby ensuring consistency and reliability in customer experience. Moreover, IoT facilitates targeted marketing, where sales strategies are meticulously crafted, leveraging data pertaining to customer preferences and behaviors, thereby ensuring relevancy and personalization in customer interactions.

### **5.2 IoT utilization in B2B models**

Example: Industrial IoT (IIoT) in Manufacturing

Exploring B2B, an IIoT-driven manufacturing firm exemplifies the integration of IoT in sales policy management. Employing sensors across manufacturing units, the firm can monitor machinery health, production rates, and inventory levels in real-time. This data, when utilized within sales policy, enables the formulation of strategies that assure consistent supply chains, timely deliveries, and transparent communication with business clients regarding production statuses and potential disruptions. Furthermore, predictive analytics derived from IoT data facilitates the anticipation of market demands and production adjustments accordingly, ensuring alignment with client needs and market dynamics. This not only optimizes operations but also fortifies client relationships by upholding reliability and transparency in B2B interactions.

### **5.3 Learnings and implications from real-world implementations**

Deducing from real-world applications, several learnings and implications come to the fore. Predominantly, the integration of IoT enhances data availability, ensuring sales policies are



informed, dynamic, and responsive to market and customer dynamics. This invariably uplifts customer experiences, operational efficiencies, and policy relevancy. However, it also brings forth challenges related to data management, security, and ethical considerations in utilizing customer data. Furthermore, the technical infrastructure, skillset, and organizational culture need to adeptly navigate and optimize IoT capabilities, necessitating investments in technology, training, and change management.

The examples elucidate that while IoT introduces a realm of possibilities in enhancing, personalizing, and innovating sales policies and customer interactions, it concurrently demands meticulous management, ethical considerations, and continuous adaptation to technology and market evolution. Therefore, the integration of IoT within sales policy management, whilst being a potent tool for innovation and enhancement, necessitates a balanced, ethical, and strategic approach to ensure its sustainable, ethical, and optimal utilization across business models and domains. This invariably fosters a scenario where technological capabilities are harmoniously integrated with strategic, ethical, and customer-centric sales policy management.

## **6. Future trends and predictions**

The proliferation of IoT has undoubtedly set the stage for a transformative epoch in sales policy management, punctuated by the confluence of data-driven strategies and technologically enhanced customer experiences. Peering into the horizon, a myriad of trends and predictions surface, delineating a future where sales policy management is ceaselessly interwoven with technological advancements.

### **6.1 Forecasting changes in sales policy management**

As businesses gravitate towards a more interconnected digital realm, changes are imminent in how sales policies are crafted, implemented, and managed. A notable shift towards more customer-centric policies is forecasted, wherein policies will be continually shaped and reshaped by a deluge of real-time customer data. Additionally, the future is likely to witness a significant surge in automated sales processes, where IoT will enable policies to be dynamically adjusted in response to evolving market conditions and customer behaviors without necessitating manual intervention. Moreover, the sales policy management of the future will likely embed sustainability and ethical considerations more profoundly, as socially responsible consumerism continues to gain traction.

### **6.2 Technological advancements and their potential impact**

The intersectionality of IoT with burgeoning technologies like Artificial Intelligence (AI), Machine Learning (ML), and Blockchain portends a future where sales policy management is not only smart but also secure and decentralized. The amalgamation of IoT and AI is poised to usher in an era of intelligent sales policies that are capable of self-optimization and predictive personalization, ensuring customer experiences are continually enhanced without necessitating manual recalibration. Furthermore, with the infusion of Blockchain, IoT-driven sales policies can be rendered more secure and transparent, enabling organizations to establish trust and authenticity within their consumer relationships, especially crucial in an era characterized by an increasing emphasis on data privacy and security.

### **6.3 Shaping future strategies for sales policy management**

Amidst the dynamic technological landscape, shaping future strategies for sales policy

management necessitates a blend of agility, foresight, and adaptability. It is imperative for organizations to not only keep abreast of technological advancements but also to foster a culture of continuous learning and adaptation. Future strategies will likely pivot around the nexus of personalization and ethical data utilization, where organizations will navigate the delicate balance of harnessing data to enhance customer experiences while concurrently upholding stringent data ethics and privacy standards. Moreover, as technology continues to permeate every facet of consumer lives, establishing robust, secure, and reliable IoT infrastructures will emerge as paramount, ensuring that organizations can seamlessly and securely navigate the burgeoning digital landscape.

In essence, the future of IoT-driven sales policy management envisages a scenario where policies are not static, but rather are living entities that continually evolve, learn, and adapt, ensuring organizations can navigate the oscillating waves of market dynamics, consumer behaviors, and technological advancements with efficacy, ethicality, and strategic foresight. Thus, the path ahead, while punctuated with opportunities for innovation and enhancement, also demands meticulous navigation, ensuring technological capabilities are harmoniously intertwined with ethical, strategic, and customer-centric sales policy management.

## **7. Challenges and Solutions in Implementing IoT in Sales Policy Management**

As IoT surges ahead, reshaping the contours of sales policy management, it ushers in a myriad of challenges, demanding deliberate and strategic solutions to ensure its optimal, ethical, and sustainable implementation across sales and marketing landscapes.

### **7.1 Identifying potential roadblocks**

In the journey towards IoT-integrated sales policy management, numerous roadblocks emerge, notably including technical challenges such as establishing a robust and secure IoT infrastructure and organizational hurdles like fostering an adaptive organizational culture and navigating the complexities of data management and utilization. Furthermore, the ethical and legal facets of data utilization and customer engagement present palpable challenges, demanding meticulous navigation and compliance.

To effectively establish and manage Internet of Things (IoT) systems, implementing robust technical infrastructure is essential. This involves creating and maintaining a network of interconnected devices and systems that can communicate and exchange data seamlessly. The focus should be on ensuring the reliability, scalability, and security of these systems to facilitate smooth operations and data management.

In addition to the technical aspect, legal compliance is a critical element in the IoT landscape. This entails engaging with legal experts who can help navigate the intricate web of regulations and compliance issues related to data usage and consumer engagement. It's important to stay abreast of the evolving legal framework governing IoT and ensure that all practices are in line with regulatory requirements. This dual approach of combining technical expertise and legal guidance is crucial for the successful deployment and operation of IoT systems.

### **7.2 Navigating data security and privacy concerns**

The deluge of data that IoT introduces comes hand in hand with heightened concerns regarding data security and privacy. Ensuring data is utilized ethically, stored securely, and managed meticulously emerges as a significant challenge in implementing IoT in sales policy management.

The construction of a secure and robust infrastructure for data management and storage forms a



cornerstone for protecting against breaches and ensuring the integrity of data. This involves the deployment of advanced security measures, regular system updates, and vigilant monitoring to safeguard against any potential threats. Such an infrastructure is not only crucial for the protection of sensitive information but also plays a vital role in maintaining the overall reliability and efficiency of data systems.

Alongside securing the infrastructure, it is equally important to implement transparent data practices. This encompasses the adoption of clear and straightforward policies regarding data handling and communicating these practices openly to customers. Transparency in data practices helps in fostering trust among users and ensures compliance with data protection regulations. By combining a secure infrastructure with transparent practices, organizations can create a robust framework for managing and protecting data while also building a strong relationship of trust with their customers.

### **7.3 Adapting organizational structures and strategies**

The infusion of IoT necessitates a recalibration of organizational structures and strategies, pivoting towards a model that is capable of harnessing the capabilities of IoT while concurrently navigating its complexities and challenges.

Cultivating a culture of adaptability and continuous learning within an organization is a crucial solution for ensuring that teams are proficient in navigating and optimizing the capabilities of the Internet of Things (IoT). This approach involves encouraging a mindset of openness to change, fostering an environment where ongoing learning is valued, and providing opportunities for skill development. Such a culture empowers employees to stay abreast of the latest IoT technologies and trends, enabling them to adapt quickly to new challenges and opportunities.

In addition to nurturing an adaptive culture, integrating strategic foresight into the organizational strategies is vital. This means incorporating a forward-thinking perspective into the planning process, allowing the organization to anticipate and prepare for future technological developments in the IoT realm. By doing so, the organization positions itself to adeptly navigate the evolving technological landscape, ensuring it can harness IoT capabilities optimally. This strategic foresight not only aids in future-proofing the organization but also enables it to take full advantage of emerging opportunities in the dynamic field of IoT.

## **8. Conclusion**

The juxtaposition of IoT within sales policy management unveils a future punctuated by interconnectedness, data-driven strategies, and enhanced customer experiences. As organizations voyage through the IoT-infused landscapes of sales policy management, the challenges are as palpable as the opportunities, demanding meticulous navigation, strategic foresight, and ethical considerations. Ensuring that the implementation of IoT is not only technically robust but also ethically sound and strategically aligned emerges as paramount in navigating towards a future where technology and strategy converge to foster enhanced, personalized, and ethically grounded customer experiences and sales policies. Consequently, as the realms of IoT and sales policy management converge, organizations stand on the precipice of an era that melds technological capabilities with strategic and ethical sales practices, crafting a future where technology, strategy, and ethics coalesce to propel organizations and customer experiences into the next epoch of the digital and interconnected era.

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