

Cloud Computing a Key to Supply Chain Management: Embracing the Cloud Advant

Jyothilakshmi G Kava¹, Chinmayie K A²

¹Assistant Professor, Department of Computer Science, M.M.K & S.D.M Mahila Maha Vidy
Mysuru, Karnataka, India

²Alumnus 2023 Batch, M.M.K & S.D.M Mahila Maha Vidyalaya, Mysuru, Karnataka, In

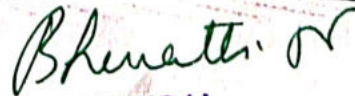
ABSTRACT

Cloud-based Supply Chain Management (SCM) is a rapidly evolving approach which uses computing to improve the efficacy and efficiency of supply chain operations. There are several methods for managing supply chains, including employing Excel spreadsheets and various programmes. These methods are unsecure, ineffectual, and prone to human mistake. By using computing supply chain companies and others can build something better and deliver the best possible. In this paper, the key factors which will enhance the performance of supply chain cloud computing will be discussed. It highlights the advantages of cloud adoption, such as communication, real-time monitoring, scalability, and cost savings. The primary objective of this paper is to examine and emphasise the value of CC (cloud Computing) in SCM (Supply Chain Management). The transformative potential of cloud-based SCM in fostering supply chain operations and competitiveness in the digital era is highlighted in this paper.

KEYWORDS: Supply Chain Management (SCM), Cloud Computing (CC), cloud based Supply Chain Management, efficiency, resilience, regulatory compliance

INTRODUCTION

In the digital age, cloud-based supply chain management (SCM) has evolved as a paradigm shift in strategy that uses cloud computing to alter conventional supply chain operations. From the sourcing of raw materials to the delivery of the finished product, supply chain management includes coordination and optimisation of activities related to the movement of goods, services, and information. Cloud-based SCM refers to the use of cloud computing platforms and services to improve supply chain communication, data management, and supply chain procedures. Organisations can access, store, and analyse enormous amounts of supply chain data in real-time, from anywhere, at any time, thanks to the cloud's scalable and adaptable architecture. Organisations can use advanced analytics, machine learning, and artificial intelligence (AI) capabilities to gain insights, identify patterns, and forecast demand accurately by implementing cloud-based SCM solutions. This increases forecasting accuracy and reduces the likelihood of stock outs or overstock situations. Cloud-based SCM has the ability to revolutionise supply chain management.



PRINCIPAL

MMK & SDM Mahila Mahavidyalaya
Krishnamurthypuram, Mysore-570 004