

SAP DATA INTEGRATION TECHNIQUES IN LARGE ENTERPRISES

Vamsee Krishna Ravi¹, Chandrasekhara Mokka², Dr Umababu Chinta³, Aravind Ayyagari⁴, Om Goel⁵ & Akshun Chhapola⁶

¹Acharya Nagarjuna University, Guntur, Andhra Pradesh, India

²Campbellsville University, Campbellsville, KY 42718, United States

³Foster School of Business, University Of Washington, Seattle, WA

⁴Wichita State University, Dr, Dublin, CA, 94568, USA,

⁵Ex-Dean, Gurukul Kangri University, Haridwar, Uttarakhand, India

⁶Maharaja Agrasen Himalayan Garhwal University, Uttarakhand, India

ABSTRACT

In the era of digital transformation, large enterprises face significant challenges in managing vast amounts of data across diverse systems. Effective data integration is crucial for ensuring seamless communication, enhancing operational efficiency, and facilitating informed decision-making. This paper explores various SAP data integration techniques tailored for large enterprises, emphasizing their role in overcoming integration complexities. The study highlights key methodologies, including SAP Process Integration (PI), SAP Data Services, and SAP Cloud Platform Integration, each offering unique advantages in terms of scalability, real-time processing, and ease of implementation.

Furthermore, the paper examines best practices for implementing these techniques, such as establishing robust governance frameworks, ensuring data quality, and leveraging advanced technologies like APIs and microservices. Additionally, it discusses the importance of aligning data integration strategies with business objectives to drive value across the organization. By showcasing real-world case studies, this research illustrates the tangible benefits of adopting these SAP integration solutions, including improved data visibility, enhanced analytics capabilities, and increased agility in responding to market demands.

Ultimately, this study provides a comprehensive overview of SAP data integration techniques, serving as a valuable resource for IT professionals and decision-makers in large enterprises seeking to optimize their data ecosystems and achieve sustainable growth in a competitive landscape.

KEYWORDS: SAP Data Integration, Large Enterprises, Data Management, SAP Process Integration, SAP Data Services, SAP Cloud Platform Integration, Integration Methodologies, Data Governance, Data Quality, APIs, Microservices, Analytics Capabilities, Operational Efficiency, Digital Transformation.

Article History

Received: 24 Sep 2021 | Revised: 27 Sep 2021 | Accepted: 29 Sep 2021
