

SENSIENCE TURBOCHARGES CLOUD MIGRATION WITH INFOSYS, ACHIEVES BUSINESS RESILIENCE



Abstract

This case study highlights Infosys expertise and its strategic collaboration with sensing and control components leader Sensience in migrating business-critical applications to Oracle Cloud Infrastructure (OCI). Part of an acquisition program, the cloud migration had to be executed within tight timelines while meeting the stated goals. Infosys employed its IP accelerators, best practices, and security principles to deliver a sustainable cloud solution for the client.

Client Background

Founded in the 1940s, Sensience is a global leader in the design and manufacture of highly engineered sensing and control components. The company delivers innovative technologies and solutions designed to enhance safety, performance, and quality while providing dependable support. Sensience is renowned for pioneering the ingenious bimetal disc and the Fusite one-piece hermetically sealed feedthrough. Over the decades, the company has expanded its capabilities and market presence through strategic acquisitions, solidifying its position as a trusted partner in advanced sensing and control technologies.

Business Objectives

In 2022, One Rock Capital Partners acquired the Therm-O-Disc division of Emerson Electric, rebranding it as Sensience. To support its operations, Sensience sought a scalable, high-performance cloud infrastructure capable of hosting business-critical workloads, ensuring business continuity, and accommodating future growth. The platform needed to deliver exceptional reliability, performance, and scalability while adhering to a FinOps approach to optimize costs. Additionally, Sensience aimed to enhance database license tracking and replace costly printing solutions with efficient, cloud-native alternatives.

Considering the criticality of business transaction timelines, an accelerated cloud migration approach was needed while ensuring collaboration with all stakeholders.

Fusite® and Therm-O-Disc® are trademarks of Sensience, recognized for their innovation and excellence in advanced sensing and control technologies.



Infosys as a Strategic Partner

The manufacturer chose Infosys as their hosting and migration partner to implement Oracle Cloud Infrastructure (OCI). Infosys was considered for its proven track record of reliability, best practices, and vast implementation experience.

As a next-generation digital services global leader, Infosys collaborated with Sensience to understand their business needs. Applications were separated from the parent company and migrated to the cloud in a rapid cloud transformation journey. Strategic collaboration helped Sensience migrate to cloud as per the agreed schedule. The new platform has enhanced user experience and helped achieve operational excellence.



Key Challenges

Infosys was tasked with providing a high performing platform that would run business-critical applications and meet organizational goals. Some of the key challenges faced during this implementation were:

Coordinating with parallel user identity migration project of business users in the Azure Entra ID subscription and meeting the user acceptance testing timelines.

Establishing secure connectivity to protect the transfer of large volumes of data while minimizing downtime and data loss

Securely integrating multi-cloud hosted applications, banks, and shipping vendors with the new platform while considering application compatibilities

Enabling integration of the cloud platform using AI tools to minimize human effort



Connecting global user sites and factory locations to the OCI subscription before the Multiprotocol label switching (MPLS) transition to the new organization and setting up dedicated connectivity to Oracle Cloud

Adhering to the transitional service agreement (TSA) between Emerson Electric and One Rock Capital and completing the migration within 10 weeks to avoid high penalties

Effectively managing resources to control costs and avoid unexpected expenses by using a well-architected framework

Infosys Solution



Infosys recommended Oracle Cloud Infrastructure as the best-suited solution to help Sensience stay competitive, comply with internal mandates, improve the overall enterprise efficiency, and migrate onto modernized platform. By using agile project methodologies along with risks, assumptions, issues, and dependencies (RAID) matrix templates, Infosys helped them meet the TSA exit timelines. The responsible, accountable, consulted, and informed (RACI) matrix improved coordination between various parties and streamlined the segregation of user identities in Azure and OCI applications.



For this engagement, Infosys deployed its IP accelerator tools, security framework, and landing zone best-practices to fast track the migration. The EBS/ASCP applications were hosted on the OCI compute instance virtual machines (VMs) and databases were migrated to ExaCS X9M. Infosys followed Oracle's maximum availability architecture guidelines and used real application cluster (RAC), multiple availability domain (AD), fault domain (FD), and load balancer services (LBaaS) to build high-performing, scalable, and available architecture.



We further enabled seamless integration between Azure Cloud and Oracle Cloud, allowing high-speed interconnections between boundary systems, UPS, scan devices, and SQL server databases. FastConnect and IPSec were configured for OCI connectivity. Infosys also used its own IP landing zone templates that adhere to Center for Internet Security (CIS) benchmarks for Oracle Cloud posture management.



Cloud-native solutions for faster backup, easy maintenance, and quicker refreshes were implemented to reduce maintenance time and costs. OS management tools and automated ExaCS updates were used to keep the VMs up to date, thereby simplifying maintenance. In addition to this, custom golden images, bastion hosts, load balancers, and tagging for cost efficiency greatly improved the migration process.



To ensure security and compliance, Infosys implemented OCI native tools such as CloudGuard, vulnerability security scan, web application firewall and transparent data encryption (TDE). A cross-region active data guard was set up to meet the recovery time objective (RTO) and recovery point objective (RPO) requirements of Sensience. Finally, we also replaced the expensive LRS software with the Linux open-source CUPS solution and ensured continuous printing solutions.

Benefits

Infosys helped Sensience achieve their vision of leveraging next-gen cloud infrastructure to transform their IT and business operations. The key benefits include:



Increased operational efficiency

- Shortened infrastructure provisioning time by 50-60% whereby new infrastructure can be deployed within hours instead of days
- 20-30% improvement in batch processing, 50% reduction in backup time, and 60% improvement in refresh/clone time



Optimized costs

- Reduced total cost of ownership by leveraging FinOps methodologies and providing a rationalized platform to run business-critical applications
- 20-30% infrastructure cost reduction by deploying a multi-cloud environment with Azure and OCI, giving Sensience the best results from both platforms
- 20-30% cost reduction by optimizing database licenses and CPU



Improved security and compliance

- Improved security and compliance through various OCI tools that protect the overall cloud posture using zero-trust principles



Enhanced user experience

- Elevated the user experience by ensuring high application availability and performance during month-end closure and day-to-day activities
- Improved disaster recovery processes and optimized the RTO/RPO to 4 hrs/15 mins.

Conclusion

Infosys closely collaborated with Sensience to migrate their business-critical applications onto a next-generation modernized platform. Besides enabling the best features of OCI on the platform, Infosys continues to support Sensience in meeting their business goals.



“Infosys accelerated our digital transformation, delivering a robust cloud solution on OCI. The team’s expertise ensured a smooth migration, optimizing costs and enhancing user experience.”

- Todd Wilson, Director of IT

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