

Streamlining integration for a Fortune 500 manufacturing company

Leveraging Anypoint Runtime Fabric and MuleSoft
utilities library to enhance productivity

The client is a prominent Fortune 500 manufacturing company specializing in high-tech electronics across various domains such as computer and storage, digital home, healthcare, instrumentation, point of sale and mobile devices. With manufacturing plants spread across 30 countries, the client has embarked on a journey toward digitization. By embracing digital transformation, the client intends to enhance their manufacturing capabilities and processes, enabling them to keep pace with changing market demands and deliver high-quality products to their customers in the era of Industry 4.0

The Challenge:

The existence of disparate applications and data ecosystems made it difficult for the client to share information across different systems. This led to siloed data and processes, which in turn slowed down the client's operations and affected their overall productivity. There was a lack of reusability which resulted in duplicated efforts, wasted

resources and increased costs. With build and deployment processes being manual, the client suffered from a lot of delays and errors. These challenges not only slowed down the release of new products and services but also increased the risk of errors and inconsistencies across different environments.

The Objective:

The client was in search of an integration platform that could seamlessly merge various applications and data ecosystems while also promoting the reusability of artifacts. To achieve this goal, the platform needed to have the capability to integrate different systems, databases and applications. This includes legacy systems, cloud-based platforms and on-premises solutions.

Furthermore, the client was looking for a solution that would automate their build and deployment processes to facilitate faster and more efficient releases. Overall, the client's goal was to streamline their integration and deployment processes, reduce costs and enhance their overall productivity and competitiveness.



The Solution:

We collaborated with MuleSoft Professional Services to provide a comprehensive solution to the client's integration and deployment challenges. The team leveraged Anypoint Runtime Fabric on Azure to augment the client's existing on-premises runtimes, enabling them to seamlessly integrate disparate applications and data ecosystems. HCLTech also utilized its MuleSoft utilities library to enhance the client's existing Mule common services, extending their services beyond integration to core applications such as Manufacturing Execution Systems (MES), Product Lifecycle Management (PLM) and Quality Management Systems (QMS).

In addition, we implemented Azure DevOps Continuous Integration/Continuous Deployment (CI/CD) pipelines to automate the client's build and deployment processes, reducing manual intervention and the risk of errors and inconsistencies across different environments. The implementation of CI/CD pipelines also enabled the client to achieve faster releases and improve their overall productivity and competitiveness. Overall, HCLTech's collaboration with MuleSoft Professional Services helped the client streamline their integration and deployment processes, reduce costs and enhance their overall productivity and competitiveness.

The Impact:

As an end-to-end service partner, we were able to help the client streamline their operations and achieve greater efficiency –

Our comprehensive suite of services, including business process analysis, integration platform, customization of core manufacturing systems and QA, has helped the client strengthen its compliance and adherence to enterprise IT guidelines and best practices.

Up to 30% operational efficiency increased due to the enablement of reusable utilities such as error handling, common logging and Mule library in addition to the standardized development approach defined and governed by C4E.

Overall, our services have empowered the client to optimize their workflows and achieve their business goals effectively.

