Real Time Visibility From Shop Floor To Board Room
API-led Connectivity for an Aerospace Company

The Client is a leading Europe based aerospace company that designs, manufactures, and sells civil and military aeronautical products worldwide.

OVERVIEW

Tech Mahindra played a vital role in setting up an enterprise-grade API platform and creating APIs to interact with multiple systems.

BUSINESS SCENARIO

With about 25,000 daily flights, the client's aircraft are taking off or landing every 1.4 seconds, and require enormous effort to manage operations. To meet the needs of the growing aviation industry – expected to double airline customers in the next 15 years – the client needed to significantly ramp up aircraft production while decreasing costs and improving efficiency in a sustainable way. The client wanted to kick-start Digital Acceleration to make the company agile and needed a more integrated application landscape across the enterprise to provide better visibility into the key business data.

KEY CHALLENGES

➢ The client has a lot of legacy systems and isolated data sources with siloed data affecting their Supply Chain
➢ Production team & Operations team did not have a real-time, consistent view of their projects, causing significant delays in the manufacturing process.
➢ While digital transformation requires to open up critical data to various stakeholders, security of the data is of paramount importance.

SOLUTION

✓ Tech Mahindra helped the client to adopt an API-led connectivity approach, a secured way to connect data to applications through reusable and purposeful APIs, using AnyPoint Platform
✓ These APIs unlocked data from systems, compose them into processes and deliver experiences
✓ Custom authentication and authorization modules were implemented against a federated user store.
✓ Contributed in DevOps to build the platform for APIs.

IMPLEMENTATION HIGHLIGHTS:

▪ Tech Mahindra enabled seamless information flow from Shop Floor to Board Rooms through APIs, thus providing real-time visibility and faster time-to-market.
▪ APIs were built based on strict security guidelines set up by the client, thus every transaction and communication will be rigorously monitored and managed. This is applicable to all applications and systems, both on-premise and cloud.
▪ Built a catalogue of APIs which exposes data through services from multiple backend systems and, made it accessible and consumable to deliver real business value to multiple stakeholders
▪ Creation of re-usable assets (connectors, custom policies) and templates that can be used for future needs and expansion
▪ Enhanced assimilation of manufacturing and operational metrics.
▪ Extended Support and training to the client's Development team
▪ Design and development of Security Architecture

TECHNOLOGY STACK: MuleSoft AnyPoint Platform, Jenkins, GitHub, Ansible Tower, Docker

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BUSINESS BENEFITS

Secured Transactions and Communication as per security criteria defined	Supply Chain processes Streamlined & Optimized	Reduction in time to market by 75%
Powered Consumer-facing Applications & enabled new ways to engage with users through web, mobile, and social apps	Compete Stronger in the competitive market and growing demand	Improved efficiency of manufacturing team through self-service mobile apps

ALLIANCE PARTNERSHIP

Tech Mahindra and MuleSoft are Global Alliance Partners since 2014. Within Tech Mahindra's Integration space, we are a matured practice offering a wide variety of services, through solutions which include API Management, Cloud Integration, iPaas, Legacy Modernization, Omni Channel Integration, On Premise to iPaaS migration, Application Development and Re-engineering, Implementation Roadmaps, Product Selection, Program Management & ICC/COE Setup, and Building Frameworks. Geographies served include Australia , New Zealand, Europe, North America, Middle East, Asia & India.

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