



Let's Solve



A Larsen & Toubro  
Group Company



## Case Study

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# Productization of MES System using AWS Cloud-native for Global Automotive Supplier

For a leading US-based global Tier-1 automotive supplier, LTI evaluated existing applications architecture, app structure and MES platform, re-factored application to AWS PaaS, and re-architected all applications to enhance application performance and save over US\$750,000 for the client.



## Client

The client is a leading US-based global Tier-1 automotive supplier, they design, engineer and manufacture systems and technologies that make the next generation of vehicles smarter, lighter, safer and more efficient.



## Challenges

- ▶ Enhancing features and functionality of the product
- ▶ Re-architect existing components from IaaS to PaaS, and then to Cloud Native
- ▶ Faster deployment for new plants rollouts
- ▶ Reduce CapEx and move to OpEx model



## LTI's Solution

- ▶ Evaluation of existing applications architecture, app structure and MES platform.
- ▶ Re-factoring of the application to AWS PaaS for a quick win, and then re-architect entire application.
- ▶ Application functionality was organized into microservices using Domain-Driven Design (DDD) approach and hosted in Docker containers hosted in AWS EKS.
- ▶ Application was developed using Angular 6 as client side front-end and ASP.NET Core Web API as APIs on server-side.
- ▶ Application database was SQL Server hosted on AWS RDS.
- ▶ Automation of DevOps pipeline for faster CI/CD.
- ▶ Automation of AWS resource provisioning using CloudFormation.



## Business benefits:



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