



# Cloud based smart manufacturing solution architecture definition and implementation

A leading American home appliances manufacturer

Client wanted to embark on Industry 4.0 journey to drive business outcome leveraging a scalable, future ready and cloud enabled reference architecture that can be deployed across 9+ plants

## Definition and implementation for 9+ Plants

ITC Infotech is a leading global technology services and solutions provider, led by Business and Technology Consulting. ITC Infotech provides business-friendly solutions to help clients succeed and be future-ready, by seamlessly bringing together digital expertise, strong industry specific alliances and deep domain expertise. The company provides technology solutions and services to enterprises across industries through a combination of traditional and newer business models, as a long-term sustainable partner.



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### CHALLENGE

- Disparate manufacturing system used for plant operations coupled with varying manufacturing IT landscapes across plants
- Complex manufacturing landscape with multiple legacy systems leading to data silos
- Disintegrated architecture leading to gaps in data
- Absence of single source of truth across enterprise and plants

ITC Infotech anchored multiple workshops with IT and business teams of customer to understand their existing landscapes, vision, challenges & priorities and designed a customized Industry 4.0 architecture and implemented the solution for their 9+ plants

### SOLUTION

- Leveraged ITC Infotech's Industry 4.0 reference architecture for Manufacturing Data and Analytics Platform on cloud
- Defined IIoT deployment playbook and implementation roadmap for solution realization across plants
- Solution definition and implementation was compliant with OT cybersecurity standards
- Definition of data strategy based on prioritized use cases was implemented on edge and cloud for production, asset and quality functions

### RESULTS

- Scalable architecture for seamless extensibility across 9+ plants & integration with enterprise systems
- Site independent architecture to ensure greater computation at site and mitigate connectivity interruption to cloud
- Data aggregation and classification for enterprise level view, can be further drilled down to regional and plant level KPIs