

# Manufacturing Operations Management Systems in Process Automation

The challenges of implementing Industry 4.0 technology trends in Manufacturing Operations Management (MOM) systems are many. From the compatibility and interoperability hurdles to the high cost of implementation, change management, and cybersecurity challenges to the complex multi-vendor ecosystem, the list goes on and on.

By offering a bouquet of technology and engineering solutions, we assist you in overcoming these challenges and seamlessly implement industry 4.0 trends while ensuring that you meet the latest ESG standards and sustainability goals. In the process, we enable you to build sustainable MOM systems with a quicker Go-to-Market timeline and reduced Total Cost of Ownership (TCO).

## End-to-end Technology Partner for Building New-age Manufacturing Operations Management Systems

### Value propositions that we deliver



- **Reduce time-to-market** of new products or augmentations



- **Implement low cost and sustainable** manufacturing designs



- **Support commercial grade** scaling and disruptive business models



- **Deliver new, contextual experiences** with more features (usability and operability) for end users



### Technologies & Trends We Excel In

- Artificial Intelligence and Machine Learning
- Predictive Maintenance and Condition Monitoring
- Industrial Internet of Things (IIoT)
- Edge Computing
- Cloud Computing
- Digital Twin
- Virtual Reality and Augmented Reality
- Additive Manufacturing
- Big Data Analytics and Predictive Modeling
- Automation and Robotics
- Decentralized Control Systems
- Sustainability and Green Manufacturing
- Human-Machine Interfaces (HMIs)
- Real-Time Monitoring and Data Visualization
- Advanced Process Control (APC)
- 5G Networking
- Cybersecurity
- Blockchain

## Our End-to-end Process Automation Expertise



## Systems

- Management Execution Systems (MES)
- Historian
- Advanced Process Control (APC)
- Quality Monitoring Systems (QMS)
- Plant Monitoring Systems & Applications
- Privileged Access management System (PAMS)
- Product Information Management System (PIMS)
- Laboratory Information Management System (LIMS)

## Applications We Build

- Edge Device Management
- Simulators
- Asset Sentinel
- LVS Alarm
- IT-OT Integration
- Remote Operations Management
- Application Specific Schedulers
- Response Management, Surveillance, and Billing
- Digital Twin Modules
- Video Analytics Application
- Engines: Quality Management, Quality Monitoring System, Integrated Workflow Management System, Mobile Workflow Management, Manufacturing Intelligence and Analytics
- Decision Support Systems
- Digital Logbooks
- A&E Applications
- Traceability Applications
- Remote Asset Monitoring
- Edge Analytics
- AR/VR Solutions & Applications
- Recipe Manager
- Batch Applications, Batch Management Tools
- AI/ML Applications
- BMMS Applications
- Migration Tools (TBD)

## Utthunga's Ready-to-use Accelerators to Lower Development Costs and Reduce Time to Market

### • uDDx Suite

Robust and cost-effective FDI-DTM and DD-DTM conversion tool

### • uOPC Suite

A plug-and-play platform that is designed to provide complete control over the IIoT universe

### • OPC Clients/SDK

Out-of-the-box SDK for independent development and database integration

### • SE Suite - Edge Device Management

Cloud agnostic, on premise suitable platform to connect, build, and manage IIoT devices

### • DPI Framework

Rapid mobile/cloud/web application development platform

## Our Industry Focus - Forums



## Industries



O&G



Chemicals



Pharma



F&B



Paper & Pulp



Textiles



Plastics

## This is just the **tip of the iceberg!**

To learn more about our incremental capabilities in **production, sensing and manipulating, monitoring and supervising, business planning and logistics, and cloud**, click here

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