



LightMES POWERED ST Thingworx*

Manufacturing Simplified!





About The Solution

As manufactures globally reshape their priorities and adopt newer strategies for restoring and future proofing operations, improving efficiency, using digital technologies, they are faced by challenges of cash preservation causing a significant impact on the future of MES programs in these organization. Today's manufacture ecosystem warrants the need for operational flexibility and responsive operations. A modern MES that is best aligned with your operational needs is quality-focused and can achieve a quick ROI, should be at the forefront of any decision.



Industries lose about

5-20%

of productivity in cross functional complex interactions



20-30%

of assets fail during operations due to lack of knowledge about condition of the asset



53%

of the enterprises expect COVID-19 to force a rethink of their operations and disrupt their demand cycles

Light MES

Powered by PTC ThingWorx

Light MES solution framework engineered by HCL's Industry 4.0 Digital Manufacturing Practice includes essential manufacturing execution functions, which enables customers to achieve their production and operational goals with early return on investment. This flexible framework permitting users to develop, configure and customize the MES application with significantly reduced implementation times. It offers freedom to adopt agile approach to envision integrated manufacturing value chains by the end user. Some of the key features of the framework are:

Features



Connected Enterprise

Scalable across multiple plants as it is based on ThingWorx IIoT Platform

Easy Configure & Customize

Extensibility with Production Modelling based on PTC ThingWorx Thing model



Personalized user experience

Enable remote monitoring and social distancing through Digitalization for fulfilling post COVID needs



Compliant Manufacturing

Adopt industry standard best practices of manufacturing



Business Intelligence

Apply business logic to gauge the production performance and power actionable business decisions



Rapid Project Rollouts

Seamless, quick implementation, for rapid deployment in production, to enable faster ROI realization on MES investment







Scalable Architecture

The idea of the light MES framework is to build a library and a set of functions based on Industry leading manufacturing practices that can be extended and leveraged for our customer needs. By choosing thingworx as the base platform, we inherit a scalable and enterprise class IoT Platform that offers the stability and maturity that our customers expect. The library of functions can be selectively.



Modular Functions

This solution offers all the critical and essential MES functions needed to create, customize, and modify manual daily operations by lift & shift to a complete digital means. It embodies the idea of manufacturing execution simplified by ensuring a digital response to post COVID business challenges.





Benefits

Improved Manufacturing Efficiency



Easy tracking of manufacturing and Performance KPIs



Easy to know manufacturing asset utilization



Easy identification of parts/assembly by serialization and image

Optimized Cost of Ownership

Manufacturing Integration

- Native OPC DA/UA connectivity
- Native custom cnterface through SDKs and APIs

3rd Party Licenses

- 100% based on PTC ThingWorx
- No hidden cost

Hardware

- Scalable hardware based on need
- From single server too full-flagged fault-tolerant, high availability configuration
 Save on physical hardware with cloud hosting

Administration

- Powerful admin configuration GUI
- Help central decision making
- Less dependencies on multiple roles

Industry 4.0: IIoT Adoption

- Leverage the worlds one of the foundational IIoT platform
- MQTT enabled for larger connectivity with different assetts

Software

- Modular functionality
- · Pay only for the feature for use
- Scalable pricing based on module size

Usability

- Lower training time for user
- Personified user enforcement from handheld devices
- Quick action within no time, improved productivity



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