



Let's Solve



A Larsen & Toubro
Group Company



Brochure

Digital Command Center @Edge

The Future of Intelligent Manufacturing

Overview

The convergence of IT and OT is all about interconnected systems & applications, standards, which also includes a new way of manufacturing and the digital interventions, which enable **'New-Age Smart Factory view'**. Today, we need a solution that can provide actionable insights on different facets of the manufacturing value chain like insights on machine efficiency, production output levels, real-time status of WIP orders, real-time RCA of process issues, improved visibility of processes and control on supply with improved traceability.

Be it a plant manager, shift supervisor, maintenance engineer, quality manager or an IT manager – Having the right data and business KPI details help them in their day to day work environment. Here is a glimpse of typical challenges faced by these personas.

Plant Manager

How do I gain insights into plant's real-time production level and efficiency?

IT Manager

How do I get a unified view of plant application status?

Quality Manager

What can I do to reduce defects percentage and fix quality issues faster?



Maintenance Engineer

How do I get a view of equipment operating condition and schedule preventive maintenance?

Shift Supervisor

How do I track shift production level and improve performance?

LTI Digital Command Center @Edge addresses these challenges by providing a 'Persona-driven experience' to key stakeholders through a complete digital transformation of manufacturing shop floor. The solution monitors asset and application health, manufacturing processes; tracks critical business KPIs and predicts performance levels providing actionable insights for effective decision making.

Key Highlights

Cloud based Digital Command Center @Edge

Real Time Process
Tracking

Monitoring of
critical business
KPIs

Asset and App
monitoring



Actionable
insights for
effective decision
making



Reduction in
unscheduled
downtime
through predictive
maintenance



Improved
worker
productivity



High production
efficiency and
yield



Reduced
operational costs

Approach to Resolution –The LTI Advantage

LTI's Digital Command Center @Edge provides actionable insights by collating and smartly integrating data from the shop floor PLC systems and OT apps like SCADA, Historian, MES, LIMS, servers & network components on wired and wireless network.

The unique differentiation of this solution is that it performs operations on an edge device, installed at the shop floor and shares real-time insights with various personas across multiple functional areas. **This hardware and platform agnostic solution** provides a real-time view of asset health parameters, application parameters and business KPIs like asset uptime, production cycle time, leading to improved yield.

Solution Features

LTI's Digital Command Center @Edge acts as a **'Business Insights Solution'**, serving a range of data including business, plant IT and operational technology, with **Real-time Dashboards** across multiple functional areas - production, supply chain, quality and maintenance.



Track business KPIs of a production line i.e. production cycle time, scrap, OEE, equipment failure, percentage of defects.



Track critical parameters of the shop floor applications and generate condition-based events & alerts before occurrence of critical incidents.



Track overall current system uptime with summary view of area wise start and stop time, predicting line failures and optimizing production levels.

Business Benefits

Production Process

- **8-12% improvement in production efficiency**
 - **6-8% improvement in yield**
 - **3-5% improvement in asset utilization**
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Cost Saving

- **10-15% reduction in maintenance cost**
 - **5-10% savings in energy cost**
 - **10-15% savings with optimized inventory levels**
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Quality & Safety

- **Improved root cause analysis (RCA)**
- **Faster response time in case of product quality issues**

LTI (NSE: LTI) is a global technology consulting and digital solutions company helping more than 400 clients succeed in a converging world. With operations in 31 countries, we go the extra mile for our clients and accelerate their digital transformation with LTI's Mosaic platform enabling their mobile, social, analytics, IoT and cloud journeys. Founded in 1997 as a subsidiary of Larsen & Toubro Limited, our unique heritage gives us unrivalled real-world expertise to solve the most complex challenges of enterprises across all industries. Each day, our team of more than 33,000 LTItes enable our clients to improve the effectiveness of their business and technology operations and deliver value to their customers, employees and shareholders. Find more at <http://www.Ltinfotech.com> or follow us at @LTI_Global.