Wipro's Integrated Refinery Information System (IRIS)

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Introduction

Manufacturing Execution Systems (MES)

In the manufacturing industry, specific IT applications for streamlining and executing their manufacturing operations are known as Manufacturing Execution System (MES). These applications enable manufacturers to optimize plant operations right from raw material procurement to product shipment and also helpin eliminating non-value-added items. However, most of these applications are utilized in silos and are not integrated. This makes them inefficient and requires frequent manual intervention to execute various operations. This also results in productivity loss, data loss, reduced efficiency and low profit margin.

Integrated Refinery Information System (IRIS) or integrated MES applications offer complete visibility, control and manufacturing

Live dashboards with real time field level details

optimization—from order placing, production inception, and process control to product output.

The solution

Integrated Refinery Information System (IRIS)— is an integrated system of MES applications that supports the industry to leverage IT to run processes more effectively and efficiently. IRIS supports a structured way of handling crude selection, planning and scheduling, oil movements, managing plant operation, data validation, production accounting, real-time data availability, and web portal dash board.

At present, most of the IT industries are offering IRIS platform. Wipro's IRIS solution offers highly customizable options to our clients.

Benefits

- Integrates best-in-class MES applications for smooth and efficient running of process
- Helps optimize the overall process cost effectively
- Improves and optimizes crude assays and its selection
- Cost efficient planning and scheduling of crude and product
- Movement and monitoring of oil without any loss
- Validation of data and daily reconciliation to highlight any loss or unwanted activity
- Anytime data availability to all the stakeholders
- Better operation management to enable quick decisions and process optimization
- Better risk management and root cause analysis

Customize solution features as per your business requirement

Features

IRIS is a broad-spectrum system with features including:

Flexibility to choose products from various OEMs to meet the specific application	Automated running of applications and automated data flow among applications	Application wise customization available to fulfill the needs of the users and stakeholders	Users can be assigned distinct levels of authority to run and make changes in the applications
Every action in the application is logged with date and time stamp	Process data and trend charts are available to view in web browser with specific login	Unit heat duty, power consumption and utility consumption can be monitored online	Notifications and email alerts can be customized
Control room and field level details available to view at any point of time	Report can be sent to configured emails	Live dash board with selective business data configured as per user onsite/off-shore/on call application support model	

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