SparkMES®
by Flexware Innovation

INSIGHTS MADE EASY

Your Fast Track to MES, Track & Trace, OEE and More

We know the story. You need to improve manufacturing production but lack necessary insights that focus your efforts. Flexware Innovation's SparkMES framework can get you there quickly and cost-effectively. SparkMES is built on Inductive Automation's Ignition platform, providing a scalable, modular framework to address your immediate needs (and position you expertly for future needs). And you'll appreciate the modern look and feel, designed with the end user in mind.

WHY MANUFACTURERS CHOOSE SPARKMES

- Gain insight, visibility, and understanding into cell, line, and plant production data to understand quality issues, machine downtime, and more
- Make data accessible to the right people at the right time, from the shop floor to the top floor
- Locate raw material, finished goods, and materials used in production
- Respond rapidly and accurately to recalls and audits
  with effective traceability, track/trace, genealogy
- Increase profitability through line efficiency
- Gain access to a robust, modern manufacturing system when IT and Operations budgets might be limited

WHAT YOU GET WITH SPARKMES

Modern MES: Robust platform with rapid application development, modernized UI

Configurable: Power to customize internally, including adding lines or equipment

Scalable: Greater agility for change, no longer tied to a developer

Reduced Annual Budget: Cost savings through solution management and reduced annual maintenance fees

LEARN MORE
www.sparkmes.io
Ask for your demo today!

Revision Date: 29-Jan-2026

PACKAGES OVERVIEW

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OEE
Enables tracking of Overall Equipment Effectiveness (OEE) and downtime data for locations. This module also allows you to annotate downtime events and revise run data.

TRACK & TRACE
Track and Trace allows the user to manage the manufacturing process, fulfill work orders, and collect production state.

QUALITY
Quality allows the operator to conduct end of line quality tests and view test history.

INVENTORY MANAGEMENT
Inventory Management allows users to view, receive, and transfer inventory from a station.

ERP INTEGRATION
ERP Integration allows data exchanges to an ERP system for communicating production schedules, work orders, BOMs, and process plans.

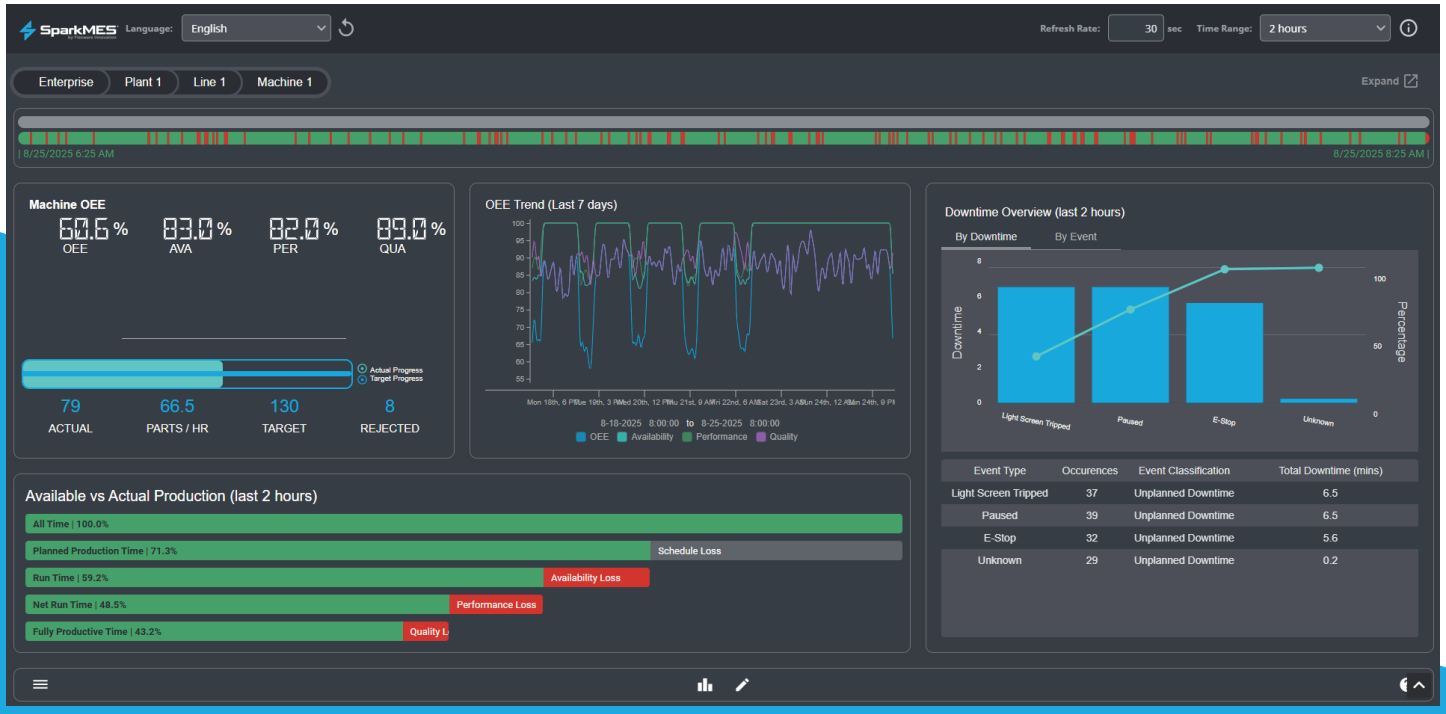
SCHEDULING
Scheduling allows the user to schedule products to run on locations.

SHIPPING
Shipping enables the user to create and manage shipping orders, scan products to be shipped, and manage box placement on pallets.

HELP DESK
Q&A forums, bug tracking, feature requests, release notes, and configuration video walk throughs.

KITTING
This package ensures real-time inventory visibility, preventing delays by offering instant insights into kit availability. SparkMES™ Kitting facilitates precise assembly, adaptable methods, and real-time inventory insights, enhancing overall kit assembly efficiency.

ADDITIONAL INFORMATION
* *Pricing is determined by the size and scope of the project and the packages selected for implementation.*
* *An engineering services engagement is required to configure SparkMES and will be included in the quoted pricing.*
* *Client is responsible for purchase of required Ignition licenses (Ignition Core, Perspective, etc.).*
* *Revision updates are not included in the software purchase.*



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FAQS

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GENERAL QUESTIONS

What is SparkMES?
- SparkMES is a modular, customizable Manufacturing Execution System (MES) built on Inductive Automation's Ignition platform. It gives manufacturers essential MES functionality like OEE, Traceability, Inventory Management, and more—without the complexity or cost of traditional MES systems.

Who is SparkMES for?
- It is ideal for manufacturers using Ignition who want to gain MES capabilities without building from scratch or investing in overly complex solutions.

What packages are available in SparkMES?
- The packages include: OEE, Track & Trace, Inventory Management, Scheduling, Quality, ERP Integration, Kitting, Shipping, Help Desk, and Configuration.

Is SparkMES a product or a toolkit?
- SparkMES is a framework built on proven Ignition architecture that comes with pre-built, production-ready MES modules. It's a solid foundation with the flexibility to scale and customize as needed.

How is SparkMES different from traditional MES systems?
- Traditional MES systems can be rigid, overbuilt, and expensive. SparkMES is modular, so you only implement what you need. It is built for your process, easy to modify, and puts configuration in your hands.

TECHNICAL, CONFIGURATION, & SECURITY

What platform is SparkMES built on?
- SparkMES runs entirely on Inductive Automation's Ignition platform, using native objects, Perspective views, and role-based security.

Can I customize SparkMES?
- Yes. SparkMES is built to be internally configurable. You can modify screens, dashboards, logic, and workflows using built-in Ignition configuration session.

Do I need to buy every package?
- No. SparkMES is modular. Only pick the packages you need.

Are dashboards customizable?
- Yes. Each package includes default dashboards, but you can customize or build your own using Ignition's Perspective tools.

What types of reports are available?
- SparkMES includes real-time and historical reports such as: OEE performance, downtime pareto, genealogy tracking, material flow history, and production order status.

Can I modify it myself or do I need a developer?
- Flexware configures, integrates, and deploys SparkMES for your operation. Once live, it's yours to manage, configure, and expand at your pace.

Can SparkMES be configured without touching the backend code?
- Yes. The built-in Configuration module allows you to manage products, BOMs, parts, routes, user roles, and facility layouts through a user-friendly UI—no code needed.

Does it support facility modeling?
- Yes. SparkMES includes a built-in namespace model to represent your site-area-line structure, enabling standardized plant data organization.

How is security handled?
- SparkMES uses Ignition's role-based security model to control access to views, actions, and data across different user types.

Can we manage users and roles internally?
- SparkMES uses Ignition's role-based security model to control access to views, actions, and data across different user types.

DEPLOYMENT & OWNERSHIP

How do I get started with SparkMES?
- Request a demo. We'll walk through your needs, align on goals, and build out a roadmap to implement your MES.

How long does implementation take?
- SparkMES is designed for rapid deployment, with pilots often kicking off in weeks. Full rollouts depend on your scope and complexity.

Can it scale over time?
- Absolutely. SparkMES is built for flexibility and can scale across multiple facilities as your needs grow. Additional sites or gateways may require the purchase of additional SparkMES licenses to better support your business needs.

Is support available post-launch?
- Yes. You'll have access to documentation, training resources, and the built-in Help Desk module. Ongoing support from Flexware is also available.

Do we own the solution?
- Flexware Innovation retains ownership of the SparkMES base code, but you own the right to manage, configure, and expand your implementation. SparkMES is a one-time purchase (not user-licensed), giving your team freedom to add lines, equipment, and business-specific configurations without ongoing fees or vendor lock-in. A SparkMES license agreement confers no rights to market, license, or sell any version of SparkMES to any third party.

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