Make Your Data Work for You

Finally, a modern data solution that easily unifies data silos and offers flexible, scalable tools that accelerate data usability for domain experts and analysts. This enables faster decision-making, improved operational efficiency, and a clearer path to digital transformation for pharmaceutical manufacturers.

Unlock the full potential of your data with controlled access to contextualized data.

Pharmaceutical and life science companies possess vast amounts of data, but inefficient data practices leave them struggling to turn this wealth into *actionable insights*. Data silos, lack of context, poor governance, and non-scalable point solutions prevent them from *realizing the full potential* of their data.

Complexity Drivers and the Operational Impacts:

Inefficient Data Extraction:

- High Costs: Manual or poorly automated data extraction requires significant resources
- Long Timelines: Slow extraction hinders real-time decisions, impacting planning, quality, and market responsiveness

Poor Application Monitoring:

- Lost Customer Trust: Unreliable applications cause disruptions, fulfillment issues, and quality problems, eroding trust and leading to lost business
- Costly Downtime: Poor monitoring allows application issues to escalate into major disruptions, causing costly downtime and lost revenue
- Slow Problem Diagnosis: Lack of monitoring makes it hard to find root causes, prolonging resolution and increasing impact

Delayed Market Entry:

- Lengthy deployment timelines
- Complex systems and processes can slow down the introduction of new products or the implementation of new technologies

Data Silos: Difficulty in knowledge sharing

High Operational Costs: Maintenance, remote assets, manual processes

Increased Costs and Downtime: Warranty costs, breakdowns, innovation hindrance

Sustainability and Regulatory Challenges: Balancing competing priorities

Rockwell Automation brings a blend of expertise in engineering, digital innovation, OT/IT and industrial data science to unlock the full potential of manufacturing data.

Introducing PharmaSync

A solution that is tailored to the needs of Pharmaceutical and Biotech that enables flexible manufacturing systems by providing 'at the ready' data from one of the most data rich environments in our customers ecosystems, while minimizing deployment efforts and system downtime.

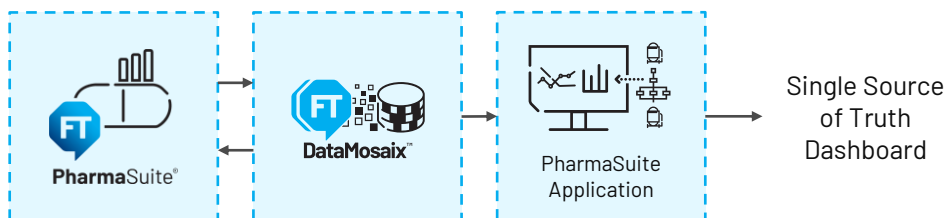|			
Closed Loop Digital Performance Management (DPM)/Cont. Improvement	Standard and flexible connectors to aggregate MES data	Centralized access control, data governance and traceability	Data exploration via search, asset hierarchies, and interactive diagrams
Flexible data modeling	Use-case focused applications reduce time to value	Accelerate advanced data science capabilities with a single source of trusted contextualized data	Simplify converged manufacturing data architecture at a lower TCO
Standard and flexible data extractors connect to existing automation and software systems	Unifies data silos to accelerate digital transformation	Reports & Dashboard tailored for the pharmaceutical manufacturing industry	Adaptive, autonomous plant operation and maintenance leveraging AI

Maximize long-term value and scalability with a common manufacturing data foundation

PharmaSync is a FactoryTalk PharmaSuite Application, powered by a modern open API with FactoryTalk DataMosaix platform, providing global visibility of production metrics, order-level tracking, and quality management.

Easily acquire and transform data from an MES system into a single source of truth

- *Enhanced Data Accessibility*: REST API with an intuitive Swagger UI provides seamless access to critical data.
- *Comprehensive Production Visibility*: Global visibility into production metrics, order-level tracking, work center performance, quality, audit trail, and exceptions.
- *In-Depth Insights*: Detailed dashboards with filters and KPIs for production processes, quality metrics, and exception management.
- *Efficient Operations*: Comprehensive monitoring of process orders, recipe execution, and exceptions to facilitate controlled manufacturing.
- *Data-Driven Decision Making*: Centralized access control, data exploration, and flexible data modeling to support informed decision-making.
- **Real time:** Continuous, closed loop process verification with automated real-time release
- **ML/AI:** Adding ML / AI to predict maintenance / quality and improve operations & throughput incl vision control