

DATA-DRIVEN MANUFACTURING AND CONTINUOUS IMPROVEMENT

Process manufacturing organizations face increasing pressure to improve efficiency, maximize product quality and yield, maintain regulatory compliance, and reduce production costs. Yet, the vast amounts of data generated across process development, manufacturing, and quality often remain fragmented and difficult to leverage.

BIOVIA Discoverant is a validation-ready solution for data access, automated aggregation and contextualization, advanced analytics, and reporting. By transforming disconnected data into actionable insights, Discoverant helps organizations optimize processes, improve product quality and yield, enhance collaboration and reduce operational costs.

DRIVING MANUFACTURING EXCELLENCE WITH BIOVIA DISCOVERANT



Ensure data integrity for GMP reporting and compliance



Analyze process trends, generate reports, and perform statistical analysis



Connect and contextualize data from internal and external repositories



Identify out-of-limit batches and accelerate investigations



Track defective batch constituent parts to improve process understanding

“The fact that it is validated is one of the biggest reasons why Thermo Fisher Scientific chose Discoverant. There is simply just no other solution out there that does all of this that can be wrapped in 21CFR Part 11 compliance. The control charts, the validation, and the automation are a huge win.”

Sam Watson, Senior Manager Data Engineering Data Architecture, Thermo Fisher Scientific

“Pacira uses BIOVIA Discoverant for manufacturing process optimization, which allows for real-time monitoring and course corrections during production. “With BIOVIA Discoverant I can see things I didn’t even dream of before.”

Ron Ortiz, Director of Manufacturing Science & Technology, Pacira Pharmaceuticals, Inc.

VALUE

Transforming fragmented manufacturing data into trusted insights for faster, smarter decision-making.

95%

decrease
in data
aggregation
time

90%

faster
Annual Product
Review (APR)
generation

87%

reduction
in material
usage during
development

1 month
to 1 Hour

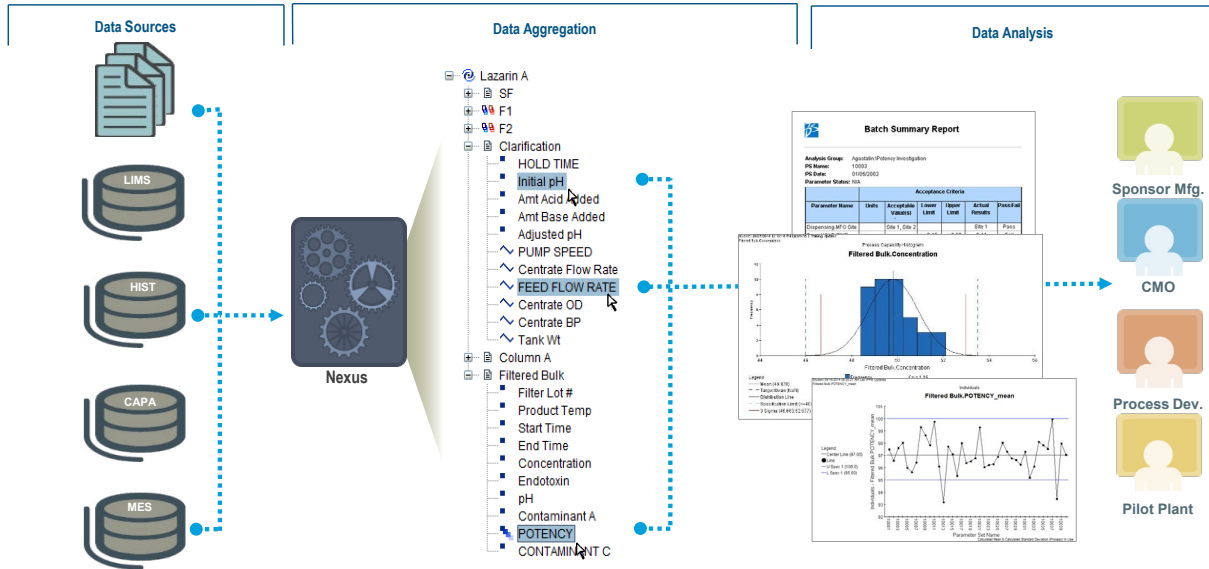
accelerate
root cause
investigations

\$35M/
Year

savings
by reducing
global batch
deviations

Discoverant is a Process Production Operations solution that integrates process development, manufacturing, and quality data into a single trusted environment. It aggregates data from disparate sources, including paper records, and organizes it into contextual process maps, known as hierarchies, enabling self-service, on-demand access to trusted information. With advanced descriptive and investigational analytics, Discoverant empowers teams to uncover process insights, accelerate root cause investigations, optimize process performance, drive continuous improvement, and reduce manual effort and the risk of errors.

AGGREGATION, CONTEXTUALIZATION AND DATA ANALYSIS



KEY APPLICATIONS ACROSS THE MANUFACTURING LIFECYCLE

Discoverant supports **critical manufacturing use cases** by connecting data, applying analytics, and improving process visibility across operations.

- **Process and Product Monitoring (CPV):** Automate process monitoring with alerts and review-by-exception for Continued Process Verification
- **CMO Collaboration:** Capture, share, and analyze manual or electronic data across sites for improved collaboration
- **Stability Data Analysis:** Analyze stability data with expiration calculations, lot pooling, and out-of-trend detection
- **Chromatography and Multi-Phase Analysis:** Identify, align, and compare process phases, including Golden Batch analysis
- **APR/PQR and Report Automation:** Automate report generation with integrated data and analysis outputs for APR, PQR, batch, and campaign reports
- **Root Cause Analysis:** Investigate out-of-trend and out-of-spec events to identify causal relationships and accelerate resolution
- **Genealogy Map:** Visualize split and pool points across production processes with a validation-ready capability
- **Digitization of Paper Records:** Convert paper-based data into compliant electronic records with verification and reconciliation controls

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