



Solution Brief

MODA eLogs

Electronic Logging for
Pharmaceutical Manufacturing

The Limits of Paper-Based Record-Keeping

Pharmaceutical manufacturers must maintain meticulous records tracking all workflows and processes, including equipment usage, cleaning procedures, room entries, and more. Traditionally documented on paper, these logs capture tasks that are central to manufacturing and product release. Paper-based systems, however, introduce serious operational and compliance risks at every step.



Data errors or inconsistencies cannot be caught in real time, allowing inaccuracies to go unnoticed until records are reviewed or

processes are investigated. Handwritten notes can trigger lengthy feedback loops involving multiple reviewers, delaying production. During investigations, records must be manually located, scanned, and cross-referenced across disparate locations, which can be a time-consuming and error-prone process. Paper record storage demands dedicated physical space, and cleanroom environments require additional resources to control contamination from logs, pens, and clipboards.

As regulatory scrutiny intensifies and manufacturing complexity grows, paper-based record-keeping is no longer a sustainable approach for organizations seeking to scale, accelerate product release, and maintain compliance.

Introducing the MODA eLogs Module

The MODA eLogs Module is an extension of the MODA platform, built to bring order, accuracy, and efficiency to the record-keeping processes that keep pharmaceutical manufacturing running.

Where MODA-ES (Execution System) governs the batch record itself and MODA-EM (Environmental Monitoring) governs QC and environmental sampling, eLogs fills the space in between — managing the state, status, and usage of the locations, equipment, and materials that support both. It supports seamless task execution, scheduling, reviewing, and record-keeping for this non-operational data, enforcing each facility's SOPs (standard operating procedures) and workflows, so that data is captured accurately the first time.

eLogs easily integrates with MODA-EM and MODA-ES to give both systems a live, verified readiness status — whether a room was cleaned before sampling or equipment is qualified before a batch step. It can also be extended to ERP systems, building management software, and shop-floor equipment, delivering the end-to-end connectivity modern manufacturing operations need to stay ahead of the game.

What MODA eLogs Delivers

From day-to-day task execution to site-wide investigations, MODA eLogs is built to improve every part of your manufacturing operations.

Accuracy and Integrity Built into Every Step

At its core, the MODA eLogs Module is designed to ensure the right steps are followed in the right order, every time. Workflows are configured to mirror each facility's SOPs, and real-time checks catch omissions and errors at the point of data entry. This prevents users from advancing until required fields are populated, so inaccuracies are caught in the moment rather than discovered during a review. Electronic signatures and time-stamped audit trails are captured automatically, satisfying data integrity requirements and eliminating the risk of using out-of-calibration or incorrect equipment at any step.

Designed for the People Who Use It

Transitioning from paper to a new electronic system is a significant change for any team. MODA eLogs is built with the end user in mind: the interface is intuitive to use, requires minimal training, and is equally simple to maintain. Workflows can be updated as processes and regulations evolve without requiring technical support or additional investment, giving operations teams the flexibility to adapt on their own terms.

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Real-Time Visibility Across the Facility

MODA eLogs provides a live view of equipment and room status across the manufacturing floor, enabling smarter scheduling of production campaigns. When an instrument is used or a room needs an additional cleaning step, the system automatically updates its status and schedules the task accordingly, ensuring it isn't used again until the step is complete. Reviewers can monitor the status of the entire facility through an intuitive dashboard, eliminating the need for in-person checks. All data is stored centrally and accessible in a searchable format from any location.



Faster Investigations and QA Reviews

When issues arise, the speed and quality of an investigation depend on how quickly the right records can be found. Rather than manually locating and scanning paper records across multiple locations, MODA eLogs reduces the time it takes to trace them by allowing users to pull up a consolidated equipment report listing every activity performed on an instrument (with timestamps) in seconds. Logs can be viewed individually or compared side by side, making root cause analysis more direct and efficient. QA teams benefit further from review-by-exception workflows, where the system surfaces only the records that require attention, freeing reviewers from sifting through logbooks for every batch.

Deeper Integration and End-to-End Automation

The MODA eLogs Module is built to connect. When linked with an electronic batch record (EBR) system, use logs are generated automatically in chronological order as batch activities are recorded, capturing the order, time, and frequency of equipment use without any manual input. Rather than locating separate logs for each piece of equipment during reviews, users can pull up a single consolidated equipment report listing every activity with timestamps, covering entries made before, during, and after batch production. This level of integration lays the groundwork for enterprise-wide automation, transforming MODA eLogs into a driver of operational efficiency across the entire site.

Getting Started

Replacing error-prone paperwork with a connected electronic logging system is one of the most impactful steps a manufacturer can take toward operational efficiency and enterprise-wide automation. The MODA eLogs Module delivers tangible benefits at every level, from the individual user capturing data on the floor to the QA team reviewing records for release, while building the centralized, accurate data foundation that makes broader automation possible.

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