



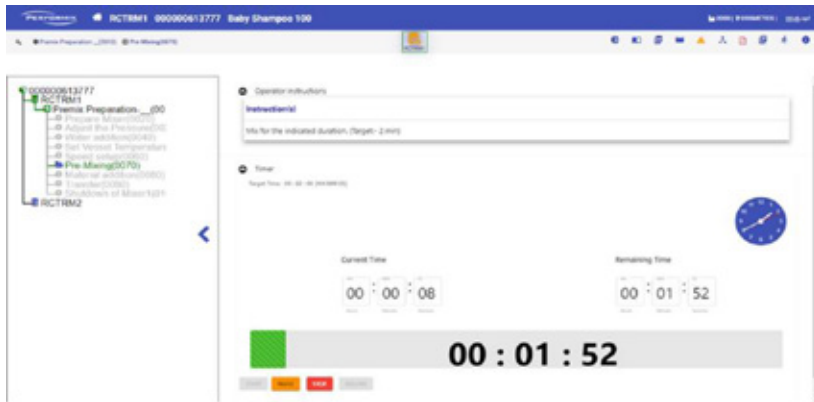
PERFORMIX

# Electronic Batch Record

Drive Efficiency, Enforce Compliance  
and Accelerate Digital Transformation

No matter how well a product is designed, the work instructions are documented, and the materials and resources are managed, the key to effective and efficient manufacturing is Execution.

This becomes all the more critical in environments where new and improved products mandate a continuously updated design, work instructions, materials and resources.



Performix Electronic Batch Record (EBR) Suite of Products enable our customers to digitize their paper-based recipes and procedures, automate their execution, and generate an Electronic Batch Record of the execution. The solution enforces regulatory compliance (21 CFR Part 11, cGMP and other guidelines), improves Operational Efficiency, and provides real time visibility of the status of manufacturing.

**Performix EBR** solution includes components for development of MBR/Recipe, execution of the MBRs on the shopfloor with real time updates to SAP, and generation of Electronic Batch Record of the execution.

It enables the above for the Batch Process Industries, such as pharmaceutical, Specialty Chemicals, Consumer Products, and Cosmetics industries.

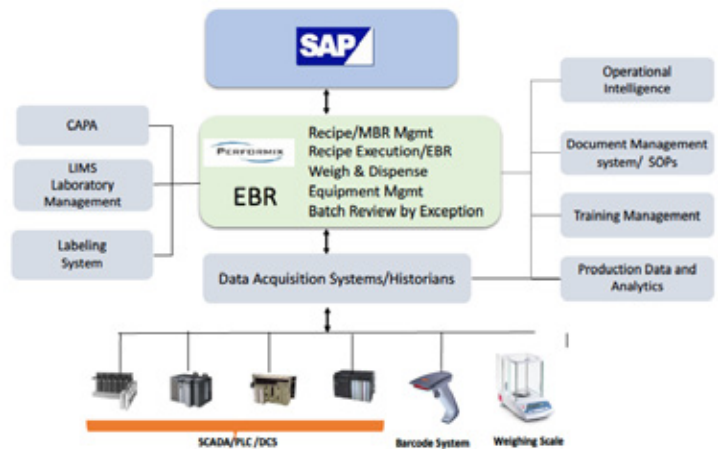
Performix EBR integrates with SAP ECC and S/4 HANA (On-Premise and On-Cloud) and the shop floor devices (PLC, SCADA, Weigh Scales, among others).

Performix EBR is offered as an On-Premise solution, as well as Cloud based.

## Architecture

Performix EBR solution consists of:

- A graphical drag and drop MBR/Recipe editor, which enables our customers to rapidly digitize all their Paper recipes. These recipes are synchronized with SAP, so that the whole system has a single version of truth.
- An EBR Engine, which executes the recipes, and posts all critical events (phase start/end, material production/consumption) and critical process parameters to SAP, in real time.
- An immutable database that serves as a system of records for audit trail and an electronic batch record of execution.



## Reports

Once the execution is complete, Performix EBR automatically produces out of the box reports that are required to approve the batch (review by exception), and for regulatory compliance.

# Key Features of Performix Electronic Batch Record (EBR) Solution



- Easy to use Drag and Drop MBR Creation
- Compliant with 21 CFR part 11 for eSignature
- Integrated with SAP ECC and S4HANA (IM, WM, QM)
- Full electronic Lot traceability and Audit trail
- Integrated e-Logbook
- Integration with PLC, SCADA, Historian, LIMS, and Document Mgmt
- Label printing and management
- Container Management
- Risk and Safety warning notification
- Multi-Lingual (Asian Languages) Support
- Batch Review by Exception
- Definition and execution of Non-Production Procedures (Line Cleaning)

## WHY PERFORMIX?

- ✓ Guided execution of the production process. Error free execution of production process.
- ✓ Enforce Compliance during execution. Compliance to regulatory requirements such as 21 CFR Part 11, cGMP, Data Integrity, and other guidelines.
- ✓ Standardized libraries of reusable templates for Recipe/MBR development and Execution. Rapid Development and deployment of MBRs and Recipes, and reduction in Validation time and effort.
- ✓ Real Time update to SAP for inventory and production status postings. Eliminates redundancy and Inventory synchronization challenges. Single version of truth for Inventory status.
- ✓ Offline execution capability. Synchronization with SAP whenever available. 24x7 availability of manufacturing environment.
- ✓ Automated Validation of Batches for Quality and Expiry dates.
- ✓ Out of the box integration with SAP ECC and S/4 HANA.
- ✓ Available on SAP Cloud and On-Premise.

“

*We were interested in MES solution that will deliver full GMP compliance and process improvements. Performix xMES not only offered these capabilities but also integrated with SAP and was instrumental in selection of SAP as our ERP solution.*

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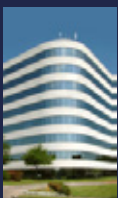
Jun Du, Chief Executive Officer  
Huahai Pharmaceuticals USA

“

*This will deliver a level of integration between enterprise systems and the plant floor that is unprecedented.*

”

Systems Architect, Manufacturing IT  
Global Specialty Chemicals company



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