

# HONEYWELL ELECTRONIC BATCH RECORD

Drive Efficiency, Enforce Compliance and Accelerate Digital Transformation

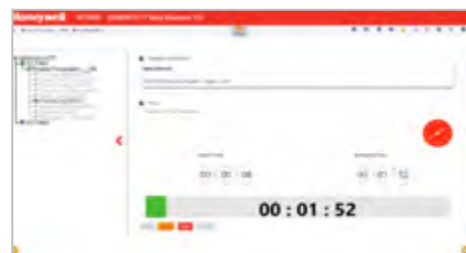
No matter how well a product is designed, work instructions are documented, and materials and resources are managed, the key to effective and efficient manufacturing is execution.

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

**Honeywell Electronic Batch Record (EBR)** solution enables 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 manufacturing status.

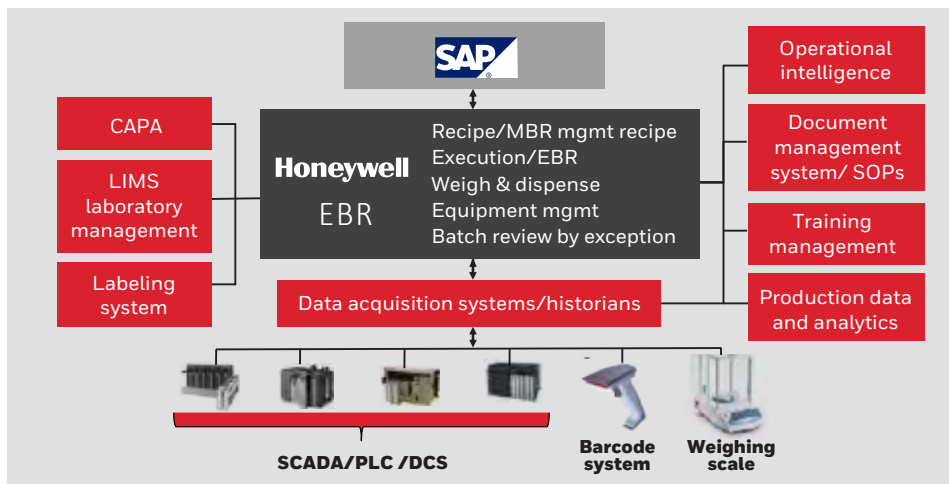
Honeywell EBR suite includes components for development of Master Batch Records (MBR)/recipe, execution of the MBRs on the shop floor with real time updates to SAP, and generation of an EBR of the execution.

Batch process industries such as pharmaceutical biologics, specialty chemicals, consumer products and cosmetics use processes that benefit from the Honeywell EBR module. It is offered as an on-premise solution as well as cloud based, integrating with SAP ECC and S/4 HANA. Shop floor systems such as DCS, PLC, SCADA, weigh scales and other devices also integrate with the Honeywell EBR solution.



*Drive operational efficiency, and reduce potential errors by digitizing paper based recipes and procedures and automating their execution.*

## ARCHITECTURE



Honeywell EBR solution consists of

- A graphical drag and drop MBR/Recipe editor, which enables 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.

**Honeywell**

## REPORTS

Regulatory compliance is facilitated with automatic reports. These reports are required to approve the batch, establishing review by exception, and they are ready as soon as batch execution is complete.

## KEY FEATURES OF HONEYWELL ELECTRONIC BATCH RECORD (EBR) SOLUTION



**Batch review** by exception

**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** Electronic Logbook

**Integration** with DCS, PLC, SCADA, Historian, LIMS, and document management

**Label printing** and management



**Risk and safety** warning notification

**Container** management

**Multi-lingual** support, including Asian languages

**Definition** and execution of non-production procedures (line cleaning)

## WHY HONEYWELL

- Guided, error-free execution of production process.
- Enforce compliance during execution with regulatory requirements such as 21 CFR Part 11, cGMP, data integrity, and other guidelines during execution.
- 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.
- Single version of truth for inventory status. Real-time update to SAP for inventory and production status postings eliminates redundancy and inventory synchronization challenges.
- Offline execution capability, synchronization with SAP whenever available, and 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. Honeywell MES not only offered these capabilities but also integrated with SAP and was instrumental in the selection of SAP as our ERP solution.”

**Chief Executive Officer**  
**Pharmaceuticals company**

“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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FUTURE  
IS  
WHAT  
WE  
MAKE IT

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