

Batch tracking and traceability

This workflow automatically captures and tracks ingredient batches throughout the manufacturing process, enabling complete traceability from raw materials to finished products for food safety compliance and rapid recall response.

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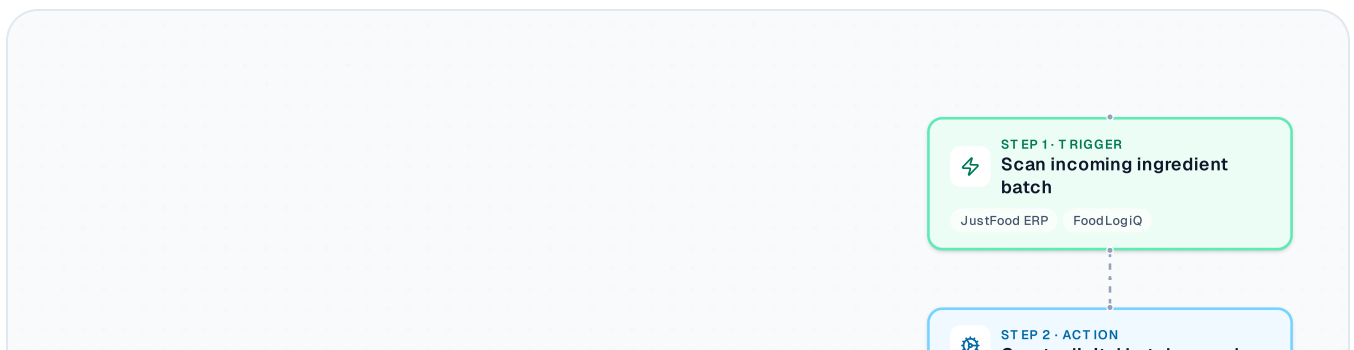


WORKFLOW TRIGGER

New ingredient batch arrives at receiving dock and is scanned into inventory

Visual Flow

Each node represents an automated step. Connections show how data and decisions move through the workflow.





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Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

Scan incoming ingredient batch

Warehouse staff scans batch barcode upon receipt, triggering automatic batch record creation. System captures supplier details, lot numbers, expiration dates, and quality certificates.

JustFood ERP

FoodLogiQ

2

 ACTION

Create digital batch record

System generates comprehensive batch record with unique tracking ID and links all relevant documentation. Quality specifications and testing requirements are automatically assigned based on ingredient type.

JustFood ERP

ComplianceQuest

3

 DECISION

Validate quality test results

System checks if all required quality tests pass against specifications. If tests fail, batch is quarantined and flagged for disposition review.

ComplianceQuest

FoodLogiQ

4

Track production usage

As ingredients are consumed in production, MES system automatically records which batches are used in specific finished product lots. Real-time consumption tracking maintains precise traceability linkages.

Wonderware MES

JustFood ERP

5

ACTION

Generate finished product genealogy

System creates complete ingredient genealogy for each finished product batch, documenting all raw material sources. Traceability data is automatically linked to shipping records and customer deliveries.

FoodLogiQ

Wonderware MES

6

OUTPUT

Maintain traceability database

Complete batch tracking records are stored in centralized database with instant recall capability. System enables one-step forward and backward traceability reporting for regulatory compliance and rapid response.

FoodLogiQ

ComplianceQuest



Outputs

- Complete ingredient-to-product traceability records
- Automated recall impact analysis reports
- Regulatory compliance audit trail



Key Metrics

- Traceability query response time
- Batch record completeness percentage
- Recall preparation time reduction



Tools & Integrations

- JustFood ERP
- FoodLogiQ
- ComplianceQuest
- Wonderware MES

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