

Order fulfillment and picking optimization

This workflow automates order fulfillment and picking optimization in cold storage facilities by intelligently routing pick orders, optimizing warehouse paths, and ensuring temperature compliance throughout the fulfillment process.

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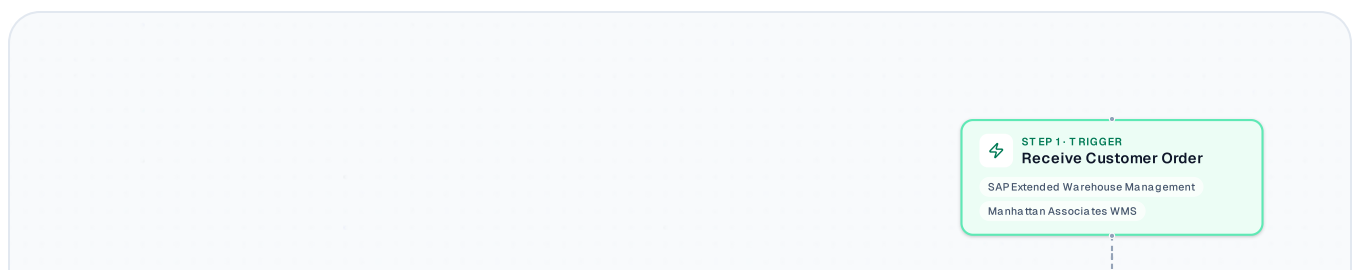


WORKFLOW TRIGGER

Customer order is received and validated in the warehouse management system

Visual Flow

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



STEP 2 · ACTION
Generate Optimized Pick List
Manhattan Associates WMS
Oracle Warehouse Management

STEP 3 · DECISION
Verify Temperature Zone Status
SCADA temperature control systems
Refrigeration monitoring software

STEP 4 · ACTION
Assign Pick Tasks
SAP Extended Warehouse Management
Manhattan Associates WMS

STEP 5 · ACTION
Monitor Pick Progress
Manhattan Associates WMS
SCADA temperature control systems

STEP 6 · ACTION
Stage for Shipping
Oracle Warehouse Management
Refrigeration monitoring software

STEP 7 · OUTPUT
Generate Fulfillment Report
SAP Extended Warehouse Management
Manhattan Associates WMS



Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

Receive Customer Order

Customer order is received and automatically imported into the warehouse management system. Order details including SKUs, quantities, and temperature requirements are validated.

2

 ACTION

Generate Optimized Pick List

System analyzes inventory locations, product temperatures, and warehouse zones to create an optimized picking route. Temperature-sensitive items are prioritized for efficient cold chain maintenance.

Manhattan Associates WMS

Oracle Warehouse Management

3

 DECISION

Verify Temperature Zone Status

SCADA system checks if all required temperature zones are within acceptable ranges for picking operations. If temperatures are out of range, workflow pauses until conditions normalize.

SCADA temperature control systems

Refrigeration monitoring software

4

 ACTION

Assign Pick Tasks

Validated pick lists are automatically assigned to warehouse workers based on zone access, equipment availability, and current workload. Real-time task notifications are sent to mobile devices.

SAP Extended Warehouse Management

Manhattan Associates WMS

5

 ACTION

Monitor Pick Progress

System tracks picking progress in real-time, monitoring worker locations and temperature exposure times. Automatic alerts are generated if items exceed safe temperature thresholds during picking.

Manhattan Associates WMS

SCADA temperature control systems

6

 ACTION

Stage for Shipping

Completed picks are automatically staged in appropriate temperature-controlled shipping areas. System updates inventory levels and generates shipping documentation.

Oracle Warehouse Management

Refrigeration monitoring software

7

 OUTPUT

Generate Fulfillment Report

Comprehensive fulfillment report is generated including pick completion times, temperature compliance data, and performance metrics. Order status is updated to ready for shipment.

SAP Extended Warehouse Management

Manhattan Associates WMS



Outputs

- Optimized pick routes with temperature compliance

- Real-time fulfillment status updates

AI Business OS

- Temperature monitoring reports for cold chain documentation



Key Metrics

- Pick accuracy rate
- Average pick time per order
- Temperature compliance percentage



Tools & Integrations

- SAP Extended Warehouse Management
- Manhattan Associates WMS
- Oracle Warehouse Management
- SCADA temperature control systems
- Refrigeration monitoring software

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