

Predictive maintenance scheduling

This workflow automatically schedules predictive maintenance for refrigeration equipment by analyzing sensor data, equipment performance trends, and maintenance history to prevent costly breakdowns and ensure temperature integrity.

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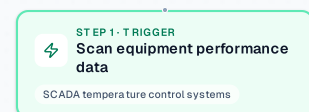
WORKFLOW TRIGGER

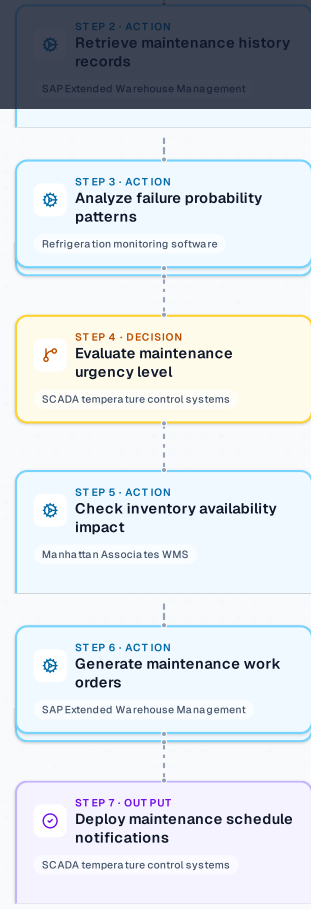


Daily automated system scan detects equipment performance anomalies or maintenance thresholds are reached

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

⚡ TRIGGER

Scan equipment performance data

SCADA system automatically collects and analyzes temperature control equipment performance metrics, vibration data, and energy consumption

patterns. Daily scan triggers when anomalies are detected or scheduled maintenance windows approach.

SCADA temperature control systems

2

 ACTION

Retrieve maintenance history records

System pulls historical maintenance data, warranty information, and previous repair records for the flagged equipment. This data provides context for predictive analysis and maintenance scheduling.

SAP Extended Warehouse Management

Manhattan Associates WMS

3

 ACTION

Analyze failure probability patterns

AI algorithms process equipment data against historical failure patterns and manufacturer specifications to calculate probability of breakdown. The system identifies optimal maintenance timing to prevent failures.

Refrigeration monitoring software

4

 DECISION

Evaluate maintenance urgency level

Workflow branches based on calculated risk levels: critical (immediate attention), medium (schedule within 48 hours), or low priority (routine maintenance window). Each path determines different scheduling priorities.

SCADA temperature control systems

5

 ACTION

AI Business OS

Check inventory availability impact

System queries WMS to identify affected storage zones and inventory that could be impacted by maintenance downtime. This ensures proper contingency planning for product relocation if needed.

Manhattan Associates WMS

Oracle Warehouse Management

6

⚙️ ACTION

Generate maintenance work orders

Automated work orders are created with specific maintenance tasks, required parts, estimated duration, and technician assignments. Orders include equipment specifications and safety protocols for cold storage environments.

SAP Extended Warehouse Management

7

📢 OUT PUT

Deploy maintenance schedule notifications

System sends scheduled maintenance alerts to facility managers, technicians, and operations teams with detailed work plans. Notifications include equipment shutdown procedures and inventory protection measures.

SCADA temperature control systems

WMS (Warehouse Management Systems)



Outputs

- Automated maintenance work orders with priority levels
- Equipment downtime schedule with affected storage zones
- Technician assignments with required parts lists



Key Metrics

- Equipment uptime percentage
- Maintenance cost reduction
- Temperature deviation incidents prevented



Tools & Integrations

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

AI Business OS

AI Business OS

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