

# Temperature monitoring and alerts

This workflow continuously monitors temperature sensors across cold storage facilities and automatically triggers alerts when temperature thresholds are breached to prevent product spoilage and maintain quality standards.

Download PDF

Get Your Blueprint

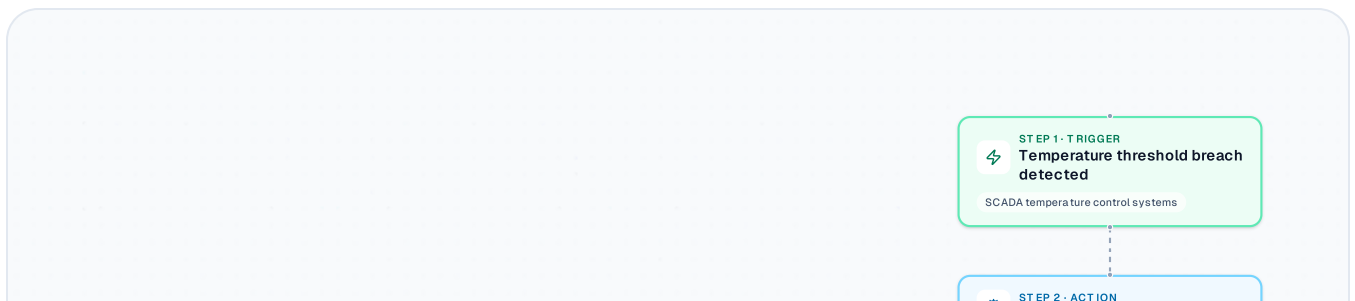
## WORKFLOW TRIGGER

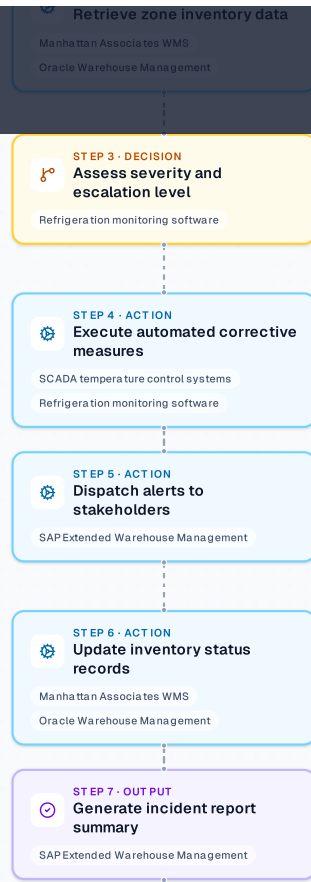


Temperature sensor reading exceeds predefined threshold limits in any cold storage zone

## Visual Flow

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





## Step-by-Step Breakdown

Detailed explanation of each automated stage in the workflow.

1

⚡ TRIGGER

### Temperature threshold breach detected

SCADA temperature control system detects temperature reading outside acceptable range in a monitored cold storage zone. Real-time sensor data is captured and validated for accuracy.

2

 ACTION

### Retrieve zone inventory data

Query WMS to identify specific products stored in the affected temperature zone and their temperature sensitivity requirements. This provides context for risk assessment.

Manhattan Associates WMS

Oracle Warehouse Management

3

 DECISION

### Assess severity and escalation level

Evaluate temperature deviation magnitude, duration, and affected product criticality to determine if this is a minor fluctuation or critical emergency requiring immediate intervention.

Refrigeration monitoring software

4

 ACTION

### Execute automated corrective measures

Trigger refrigeration system adjustments and activate backup cooling units if available. Log all automated responses for compliance tracking.

SCADA temperature control systems

Refrigeration monitoring software

5

 ACTION

### Dispatch alerts to stakeholders

Send prioritized notifications to facility managers, maintenance teams, and quality control staff based on severity level. Include real-time temperature

6

 ACTION

### Update inventory status records

Mark affected products with temperature exposure flags in WMS for quality review. Generate compliance documentation for regulatory requirements.

Manhattan Associates WMS

Oracle Warehouse Management

7

 OUT PUT

### Generate incident report summary

Compile comprehensive incident documentation including temperature logs, response actions taken, affected inventory, and resolution timeline for management review and regulatory compliance.

SAP Extended Warehouse Management



### Outputs

- Real-time temperature breach alerts
- Automated refrigeration system adjustments
- Incident documentation and compliance reports



## Key Metrics

- Temperature deviation response time
- Product spoilage prevention rate
- System uptime percentage



## Tools & Integrations

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

## AI Business OS

Actionable AI implementation strategies for business leaders ready to transform their operations.

### COMPANY

[About](#)

[Industries](#)

### CONNECT

[MVP.dev](#)

[LinkedIn](#)

### RESOURCES

[Articles](#)