

Predictive maintenance scheduling for equipment

This workflow automates predictive maintenance scheduling for car wash equipment by continuously monitoring sensor data, analyzing wear patterns, and proactively scheduling technician visits before failures occur. The business outcome is reduced downtime, lower emergency repair costs, and consistent service quality across all locations.

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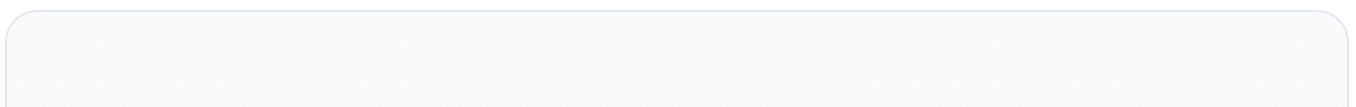
WORKFLOW TRIGGER

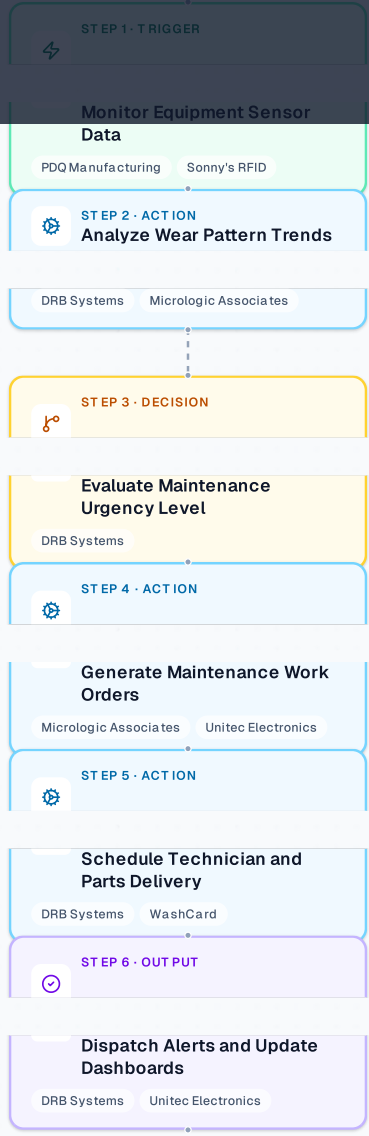


Equipment sensor threshold exceeded or scheduled daily diagnostic scan completed

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

Monitor Equipment Sensor Data

Real-time IoT sensors on wash bays, conveyor systems, and chemical dispensers transmit operational data including motor vibration, pressure levels, and cycle counts to the central monitoring system.

PDQ Manufacturing

Sonny's RFID

2

 ACTION

Analyze Wear Pattern Trends

Historical equipment performance data is compared against current readings using predictive algorithms to identify components approaching failure thresholds, such as worn brushes, degrading pumps, or belt tension issues.

DRB Systems

Micrologic Associates

3

 DECISION

Evaluate Maintenance Urgency Level

The system categorizes each flagged issue as critical (immediate attention required), preventive (schedule within 7 days), or routine (include in next monthly service). Critical issues trigger immediate escalation while others enter the scheduling queue.

DRB Systems

4

Generate Maintenance Work Orders

Automated work orders are created with specific part requirements, estimated labor time, and recommended service windows based on historical wash volume patterns to minimize customer impact during repairs.

Micrologic Associates

Unitec Electronics

5

ACTION

Schedule Technician and Parts Delivery

The system coordinates technician availability across multi-location operations, reserves necessary replacement parts from inventory, and schedules service appointments during predicted low-traffic periods.

DRB Systems

WashCard

6

OUT PUT

Dispatch Alerts and Update Dashboards

Maintenance schedules are pushed to location managers, technicians receive mobile dispatch notifications, and real-time maintenance status dashboards are updated across all locations for operational visibility.

DRB Systems

Unitec Electronics



Outputs

- Automated maintenance work orders with parts lists and labor estimates
- Optimized technician dispatch schedule aligned with low-traffic windows
- Real-time equipment health dashboard for all locations



Key Metrics

- Equipment downtime hours reduced per month
- Emergency repair costs versus planned maintenance costs
- Mean time between equipment failures (MTBF)



Tools & Integrations

- PDQ Manufacturing
- Sonny's RFID
- DRB Systems
- Micrologic Associates
- Unitec Electronics
- WashCard

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