

# Wash bay scheduling and equipment allocation

This workflow automates wash bay scheduling and equipment allocation across multiple car wash locations by analyzing real-time queue data, equipment status, and customer membership tiers to optimize throughput and minimize wait times.

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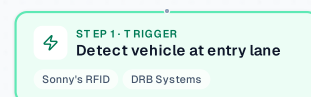
## WORKFLOW TRIGGER

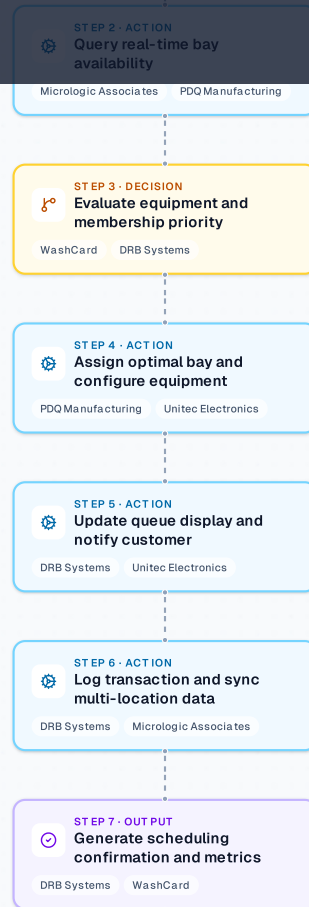


Customer vehicle detected at entry lane via RFID tag scan or license plate recognition

## 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

### Detect vehicle at entry lane

RFID reader or camera identifies incoming vehicle and retrieves customer profile including membership tier, wash history, and preferred services

from the POS system.

## AI Business OS

Sonny's RFID DRB Systems

2

 ACTION

### Query real-time bay availability

System polls all wash bays at the current location to determine equipment status, current cycle progress, and estimated completion times for occupied bays.

Micrologic Associates

PDQ Manufacturing

3

 DECISION

### Evaluate equipment and membership priority

Workflow branches based on customer membership tier (unlimited vs. single wash), requested wash package, and whether specialized equipment (ceramic coating applicator, undercarriage wash) is required and available.

WashCard

DRB Systems

4

 ACTION

### Assign optimal bay and configure equipment

Algorithm selects the best available bay based on queue position, equipment compatibility, and predicted cycle time. Sends configuration commands to pre-stage chemicals, brush pressure, and dryer settings.

PDQ Manufacturing

Unitec Electronics

5

 ACTION

### Update queue display and notify customer

Digital signage at entry lane updates with assigned bay number and estimated wait time. SMS notification sent to customer if wait exceeds threshold or if they opted for text alerts.

DRB Systems

Unitec Electronics

6

 ACTION

## Log transaction and sync multi-location data

Records wash assignment, start time, and equipment utilization to central database. Syncs data across all chain locations for corporate reporting and cross-location membership validation.

DRB Systems

Micrologic Associates

7

 OUTPUT

## Generate scheduling confirmation and metrics

Produces digital receipt with bay assignment, outputs real-time dashboard update for location manager, and feeds data into predictive analytics for demand forecasting.

DRB Systems

WashCard



## Outputs

- Bay assignment confirmation displayed to customer with estimated wait time

- Equipment pre-configuration commands sent to assigned wash bay

## AI Business OS

Updated location dashboard showing real-time bay utilization and queue depth



### Key Metrics

- Average customer wait time from entry to bay assignment
- Wash bay utilization rate per hour across all locations
- Equipment idle time between wash cycles



### Tools & Integrations

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

## AI Business OS

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