

Production scheduling and optimization

Automatically generates optimized production schedules by analyzing demand forecasts, resource availability, and capacity constraints to maximize throughput while minimizing downtime and bottlenecks.

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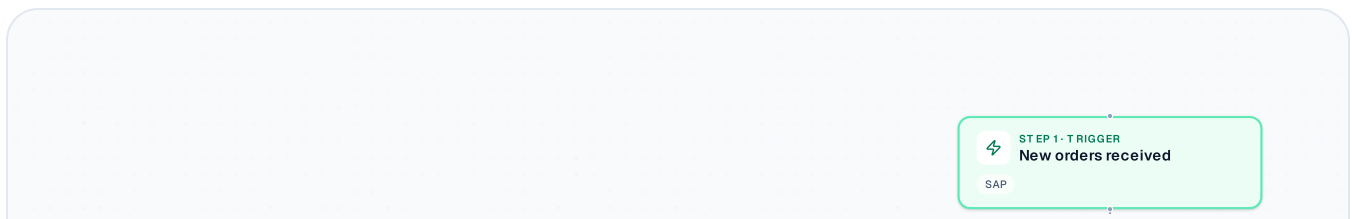
WORKFLOW TRIGGER

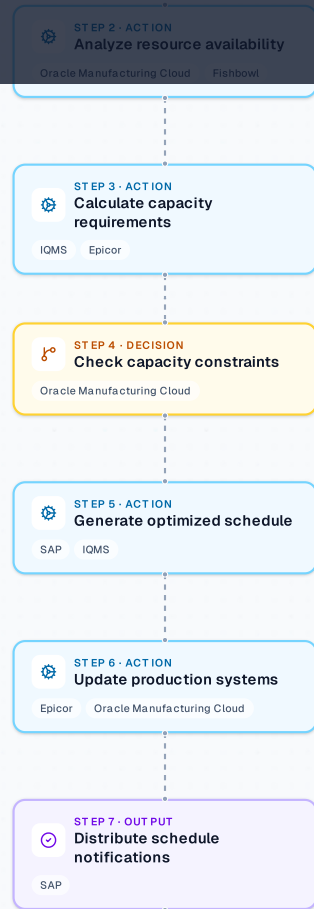


New sales orders received or existing production schedule requires adjustment due to capacity changes

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

New orders received

Sales orders are imported from ERP system and parsed for production requirements including quantities, delivery dates, and product

2

 ACTION

Analyze resource availability

System queries current machine capacity, labor schedules, and raw material inventory levels to determine available production resources.

Oracle Manufacturing Cloud

Fishbowl

3

 ACTION

Calculate capacity requirements

Production planning engine calculates required machine hours, labor time, and material consumption for each order based on routing and bill of materials data.

IQMS

Epicor

4

 DECISION

Check capacity constraints

System evaluates if current capacity can meet demand within required timeframes and identifies potential bottlenecks or resource shortages.

Oracle Manufacturing Cloud

5

 ACTION

Generate optimized schedule

AI optimization engine creates production schedule that minimizes setup times, balances workload across resources, and meets delivery

6

 ACTION

Update production systems

Finalized schedule is automatically pushed to shop floor systems and work order management platforms to initiate production activities.

Epicor

Oracle Manufacturing Cloud

7

 OUT PUT

Distribute schedule notifications

Production managers and floor supervisors receive automated notifications with updated schedules, priority changes, and resource assignments.

SAP



Outputs

- Optimized production schedule
- Resource allocation plan
- Delivery commitment updates



Key Metrics

- Schedule adherence percentage
- Production throughput rate
- Equipment utilization percentage



Tools & Integrations

- SAP
- Oracle Manufacturing Cloud
- Fishbowl
- IQMS
- Epicor

AI Business OS

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