

### Today's Agenda



**Challenges of Today's Distribution Centers** 

**Solution Overview** 

Configurability

**Inbound Operations** 

**Inventory Management** 

**Outbound Operations** 

**Warehouse Labor Management** 

**Enhanced User Experience** 



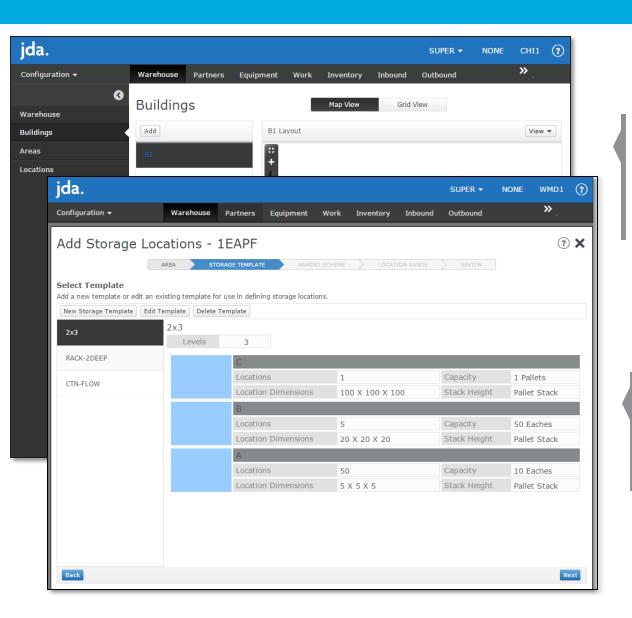


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### Configurability

#### Warehouse Configuration



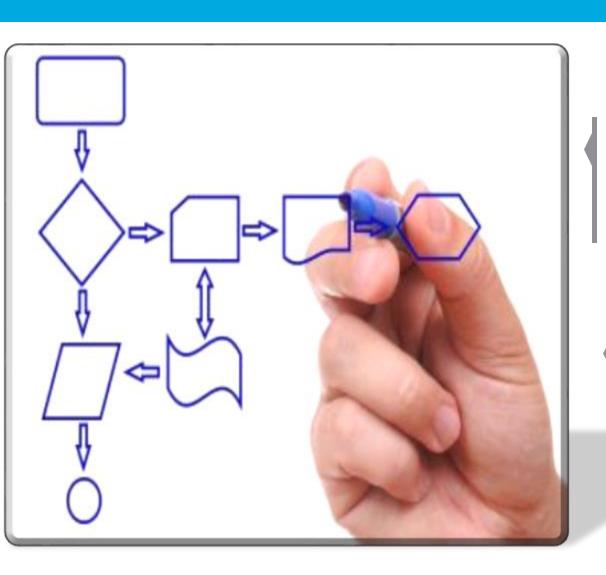


Removing the Expert through a simplified & intuitive design

Faster to Implement & Easier to Maintain

### Configurable Workflow





Configurable Workflow allows customers to manage unique or exception processes with no coding required

User response(s) to questions and/or instructions drives subsequent processing

### Configurable Workflow





Workflows can be triggered by various touch points, such as:

•Warehouse •Vendor •Item •Carrier •Customer •Order Type •Status

# 3PL – Third Party Logistics Support

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**Customer Specific Rules** 

- > Multi-Client Architecture
  - Controls inventory ownership
  - Segregates data
  - Limits user access & security
  - Integrated in billing processes
- > Client specific or shared locations
- > Client configurable workflows

- > Clients can span multiple facilities
- Users can be driven to work only on certain client tasks
- > Reports, labels, alerts can be segregated by client
- Advanced third party billing capabilities

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### Inbound Operations

## Inbound Operations – Yard Management





Full yard management capabilities core functionality within base WMS

Extended inventory visibility and operational capabilities

Labor estimates drive expected duration for appointment and optimal dock door

#### **Inbound Operations - Putaway**





System-suggested storage location to optimize product placement based on item and location characteristics, location capacity, inventory mixing rules, etc.

Movement paths with P&Ds to facilitate material flow and enforce equipment restrictions

Configurable storage location override processing

### **Inbound Operations - Putaway**

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Storage suggestion logic will first consider possible cross-docks (e.g. outbound, workline, etc.) to minimize product touches

Execute configurable rules to determine optimal storage location (consider item, family supplier, status, receiving point, etc.)



#### **Inbound Operations - Returns**





Link to outbound order to enhance return processing

Include unexpected inventory in-line with standard returns processing

Rule based disposition based on customer return reason and item

Support "next action" processing, such as replacement, return to stock, etc.

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### Inventory Management

### **Inventory Management**



Multi-level inventory holds with configurable hold characteristics, controlled locally or network-wide



**Detailed transaction** audit provides inventory processing traceability

and date processing

### **Inventory Management**

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Real-time, system directed summary and audit cycle counts with configurable cost & quantity thresholds

Scheduled counts (ABC) supplemented by opportunistic and exception counts



### Inventory Management – Product Placement

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System-directed storage location based on user-defined rules will direct product to the most optimal location

Automatic velocity
recalculation can adjust
item characteristics and
re-direct product to new
velocity zone as it arrives

Re-Slotting allows for product re-positioning at pre-determined intervals to accommodate for seasonality, promotions, and the like



#### **Inventory Management**





Work Order Management capabilities for Kitting,
Assembly, and Production

- Assembly & Disassembly
- BOM Administration
- Component Allocation, Picking & Line Delivery
- Component Level Tracking (lot, dates, COO, serial #, etc.)
- Work OrderReconciliation (scrap,RTS, consumption)

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### Outbound Operations

# Outbound Operations – Wave Management

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### Task Management

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optimal task for one operator as opposed to another

Tasks evaluated based upon permission, priority, and proximity

Tasks have configurable base priorities and escalation profiles



### Task Management

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All available tasks are managed in a single work queue





# Outbound Operations – Pick & Replenish

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RF, Voice, Paper/Label picking – any or all in a single environment

Multi-method (e.g. order, bulk, zone, etc.) any or all in a single environment

User-Defined pick verification (e.g. location, lot, etc.)

Replenish by Demand, min/max, and top-off – any or all in a single environment



# Outbound Operations – Pack Station





Touch-screen enabled pack station functionality

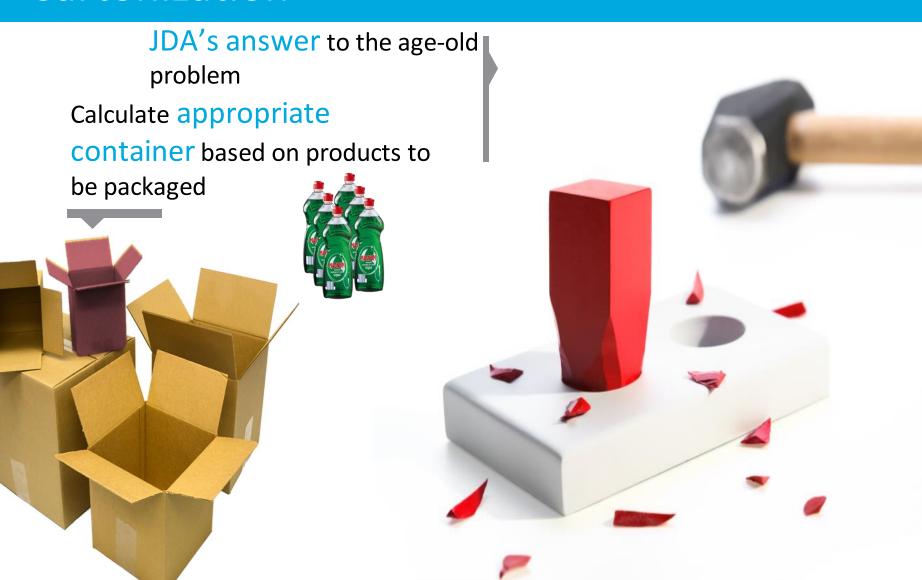
Cartonization and pack station order consolidation

Scan verification to capture UPC, lot, serial number, etc.

In-line parcel execution

### Outbound Operations – Cartonization

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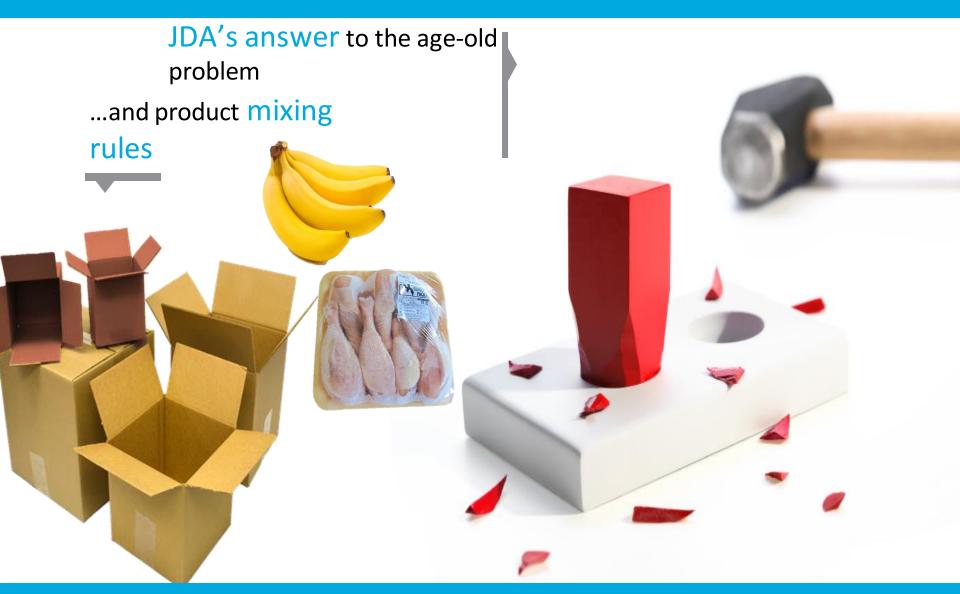
## Outbound Operations – Cartonization

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JDA's answer to the age-old problem ...while considering nesting factors

# Outbound Operations – Cartonization

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### **Outbound Operations**





Fluid/Live loading, stop sequence, and multi-zone provide control in directed and undirected mode

User-configurable labels and documents for customer and/or carrier compliance

Outbound ASN generation providing downstream efficiency

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# Warehouse Labor Management



### Performance Management





#### Your workforce is one of your most valuable resources



#### A labor program is as much about people as it is about software



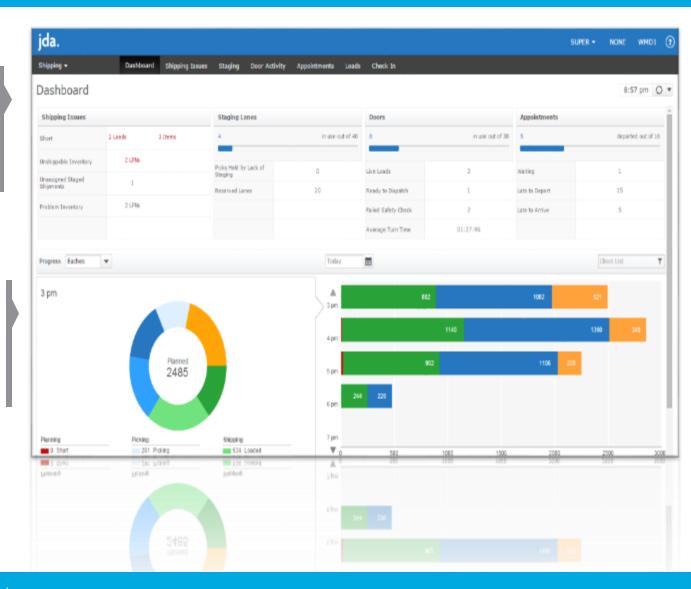
### ida. Enhanced User Experience

#### **User Experience**

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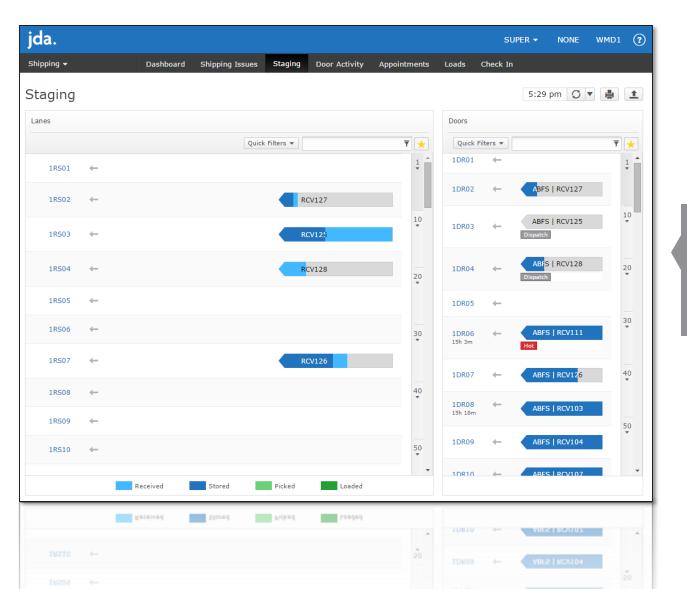
Mobility solution provides supervisors and managers desk-free operability

Web-based application provides real-time visibility and actionable information



### User Experience





#### Flexibly respond

to business demands in and outside the facility

Troubleshoot and solve problems before they impact the operation



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# Multiple Deployment Options

#### **Application Scalability**

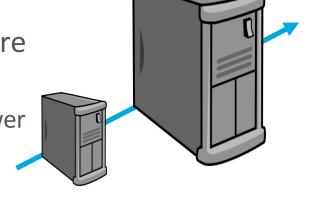


#### Achieving high performance & availability

#### Scaling Up: Use a More Powerful Server

Greater performance is achieved using a more powerful server

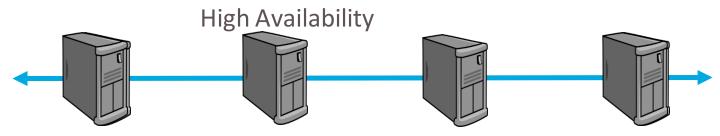
Ability to leverage high-powered hardware like IBM Power Systems



#### **Scaling Out: Use Multiple Servers**

Portions of the WMS operate on two or more clustered servers

Ability to leverage virtual server capabilities for Scalability and



### Single or Multi-Site Deployments



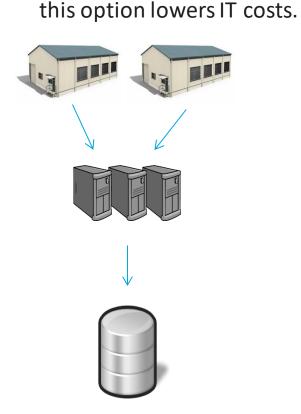
#### On JDA Cloud, on Private Cloud, or On-Premise

**Option # 1** – Every DC uses dedicated application server(s) and DB. This option provides maximum flexibility for system maintenance, but it also has a higher IT cost.

WMS Web / Application Server(s)

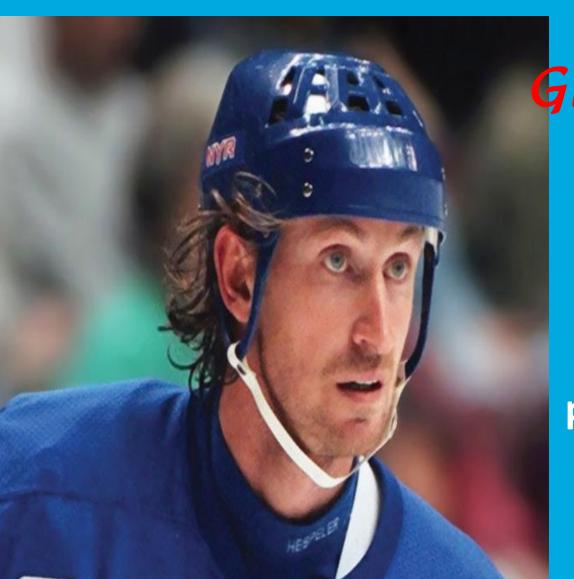
Database

Option # 2 – Two or more DCs share application servers and share a single DB. Since they are sharing IT resources there might be challenges scheduling system maintenance, but



### **Closing Thoughts**

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Good Hockey Player

"A good hockey player plays where the puck is at. A great hockey player plays where the puck is going to be."

- Wayne Gretzky