



# Oracle WMS or MSCA?

Selecting the best fit for your company

Presenters:

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# **RedLine Solutions**

Todd Baggett, President and CEO

Introduction





### **RedLine Solutions**



- 17+ year old privately held, Silicon Valley-based company
- Mobile computing, wireless networks, barcode and RFID specialist
- Leading data collection integrator for Oracle WMS and MSCA
- Work with Fortune 500 to start-up companies
- Customer installations worldwide
  - Over 45 sites installed with Oracle/Symbol/Intermed
  - Skilled systems engineers
  - Providing ongoing support of installed clients
- Strong reputation for outstanding customer service





# Oracle R12/11i



- Oracle R12 & 11i WMS/MSCA implementations
  - Long history integrating Oracle with Symbol and Zebra
  - Typical customers are larger with multiple sites
  - Installed customer base
    - Shutterfly
    - VeriFone
    - Agilent Technologies
    - Herbalife International
    - Greenball Corporation
    - NCH

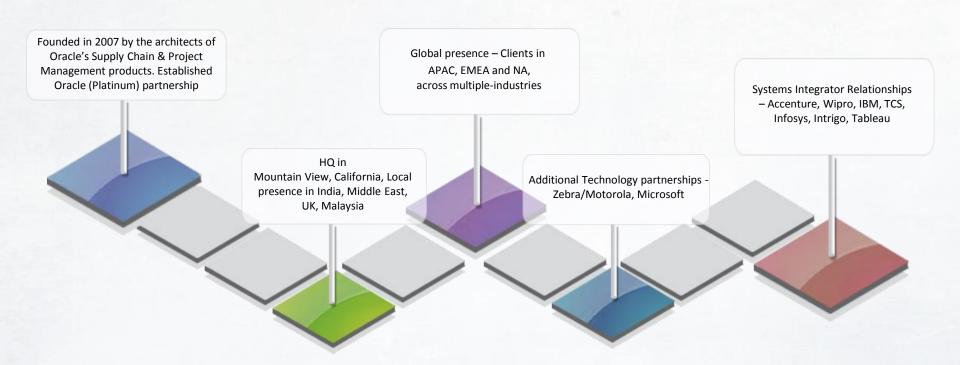






# Introducing Gaea



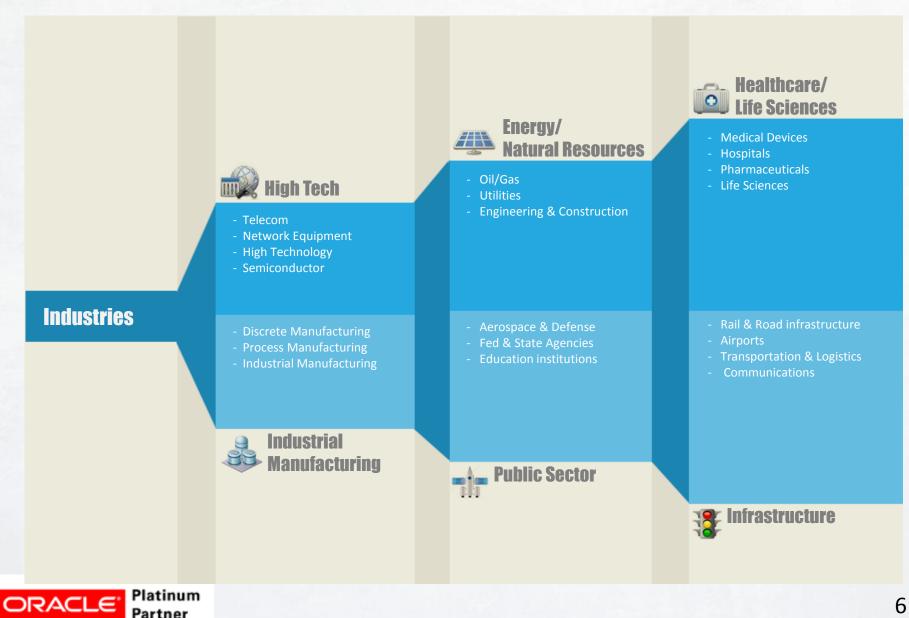






### **Focus Industries**







## **Customer Experiences**









World Wide Technology, Inc.

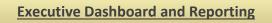


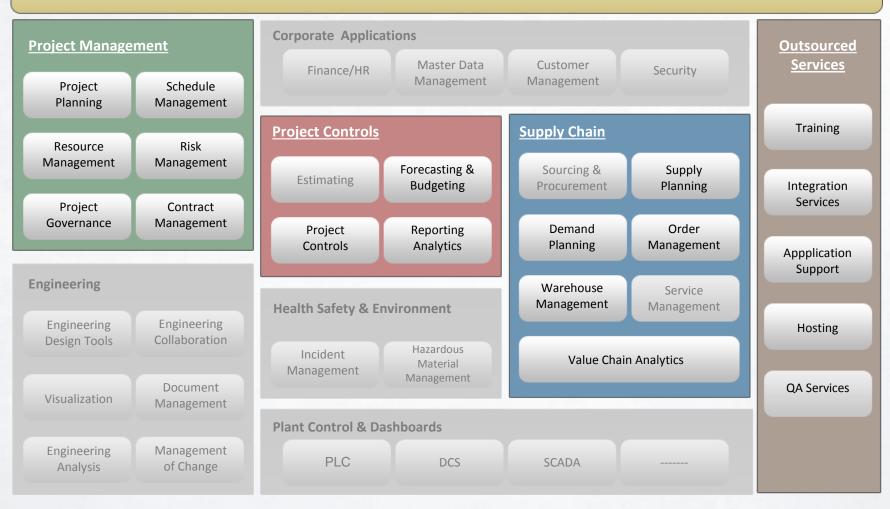




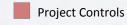
# Industry Model – Gaea's core capabilities RedLine





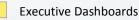


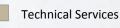














### Sample Customers







# SONY





























LARSEN & TOUBRO















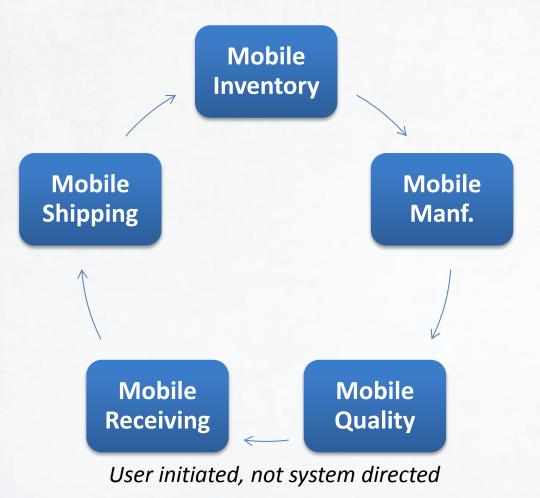


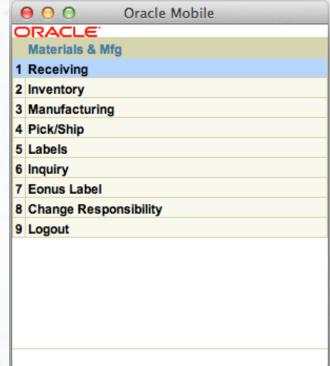


### What is MSCA?



Mobile Front end for Inventory & other modules









# What do you get with MSCA?





# Real Time Mobile Transactions



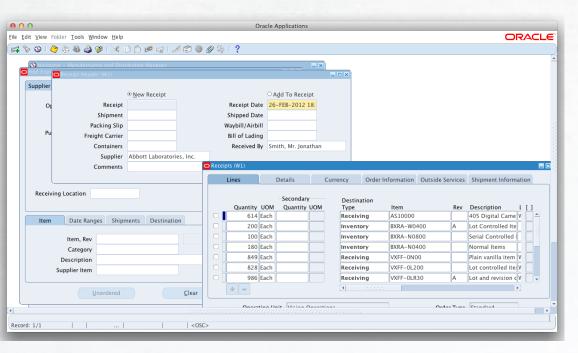
# Label Printing Infrastructure





# MSCA – Streamlined, scan based UI





Oracle Mobile		
ORACLE'		
Receipt (M1)		
PO Num	4488	, T
Supplier	Abbott Laboratories, Inc.	
Line Num	1	
Item	AS54888	N.
Desc	Sentinel Standard Desktop	
To Sub	FGI	
UOM	Ea(1 Ea)	
Qty	10	
Next Ite	m Done Cancel (C)	





## What do you get with WMS?



- License Plate Numbers
- Rules Engine
- Advanced Task & Resource Management
- Pick Methodologies
- Wave Planning
- Warehouse Automation
- Crossdocking
- Enhanced labeling
- Automation
- Demand based replenishment
- Express Receipts
- Cartonization



Efficient, streamlined, high throughput warehouse





# WMS – Why do I need LPNS?



#### What is an LPN?

Unique ID that identifies a pallet, carton, tote or another physical grouping of item or items





#### Benefits:

- Efficient movement of material
- Move multiple items/serials/lots with one scan
- Express receipts
- Better trackability
- Status control
- Reflects physical reality





# Does **everything** need to be in LPNS? Red



LPNs only mandatory for **Putaway & Picking** 

**Most Forward Pick Zones** are non LPN controlled

No

You can have a mixture of LPNs and loose material in the same sub

Use LPNs only where they serve a purpose

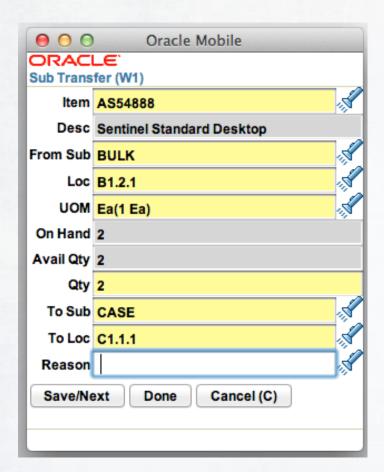




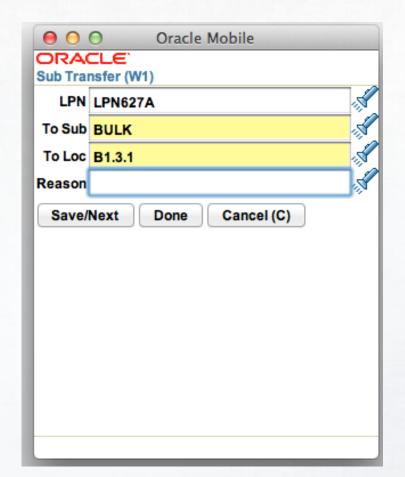
# Why do I need LPNS?



#### **Material Movement**



Without LPNS (MSCA/WMS)



With LPNS (WMS)





### What's different in the inbound process? Red



#### **MSCA**

- ✓ PO
- ✓ ASN
- ✓ In-transit Shipment
- ✓ Internal Requisition
- ✓ Inter Organization
- Inspection
- ✓ RMA
- ✓ Item based
- X No Putaway Direct Delivery into Inventory





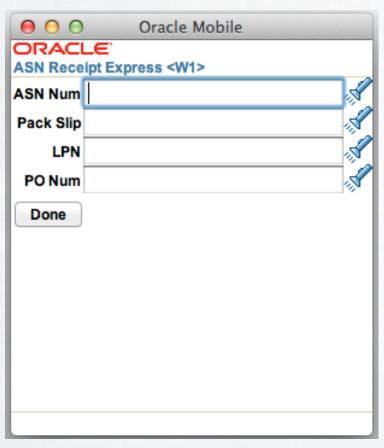


# What's different in the inbound process?



#### **WMS**

#### **Express Receipts**



✓ System Directed Putaway

✓ Crossdocking

✓ Multi Step Inbound process



# Inventory Maintenance

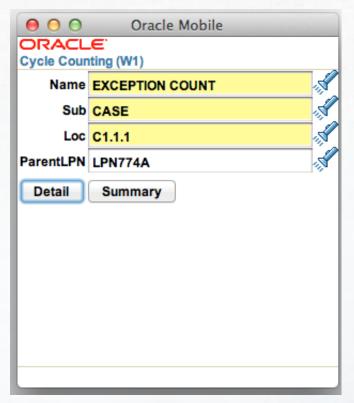


#### **MSCA**



Cycle Counts
Physical Counts

#### **WMS**



LPN summary counts
Task Based Cycle Counting
Opportunistic cycle counts





# What about labeling?





#### MSCA:

Print on demand
Print out of the box
Automated printing based on business events





Label Rules – compliance labeling Custom fields





# How is the workload balancing different? RedLine



#### MSCA:

- Standard pick release form
- Release based on customer, delivery, trip, dates etc.

Based On Rule		Document Set  Batch	
Release Criteria		Zaten _	
Order Shipping	Inventory		
Orders	Unreleased 🔻	Order Type	
Order Number		Ship Set	,
	Prior Reservations Only	5p 222	
Destination Type			
Customer		Ship-To	
_ltem			
Category Set		Category	
Number			
Scheduled Ship Da	tes	Requested Dates	
From		From	
To 28-F	EB-2012 23:59:5	To 28-FEB-	2012 23:59:5





### How is the workload balancing different? RedLine

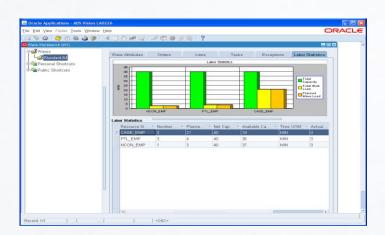


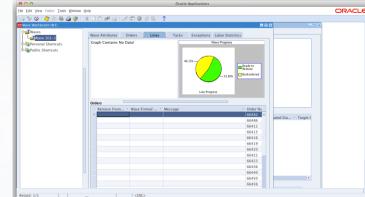
#### WMS:

Wave Planning

Plan, analyze, execute monitor

file Edit View Folder Tools Window Help			ORACL
🚅 🏷 🛇   🇳 👵 🚳 🥝 🦻   🔀 🕦 💋	M12002		= D X
			=IDIX
Wave Template Wave 101	Wave Description Fedex Wave	aph Contains No Datal	
Estimated Start Time 26-FEB-2012 18:28:52	Wave Number	apri Contains No Datar	
Planning Criteria			
Simple Criteria Advanced Criteria Wave O	ptions		
Order	Customer		
Order Type	Customer Class		
Ship Method	Carrier Fedex		
Ship Priority	Delivery		
Trip	Trip Stop		
Item	Item Category	' Created By ' Estimated Sta.	' Target (
Project	Task		
Orders with scheduled ship dates within	next Days Hou	rs	
Orders with dock appointment within	next Days Hou		
Orders with dock appointment within	next Days Hou		
			D
Save as Wave Template	aunch Online Launch Concurrer	ato I	





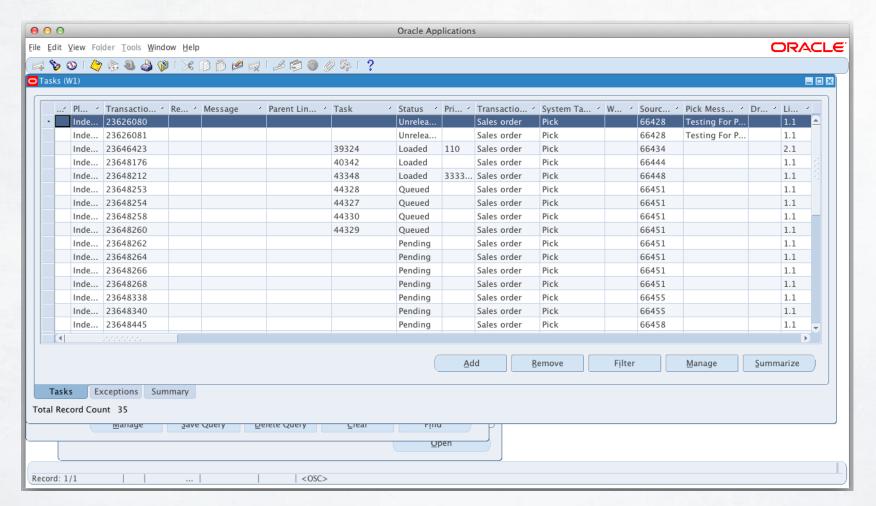




### WMS – How can I manage tasks & resources? RedLine



#### **Control Board**



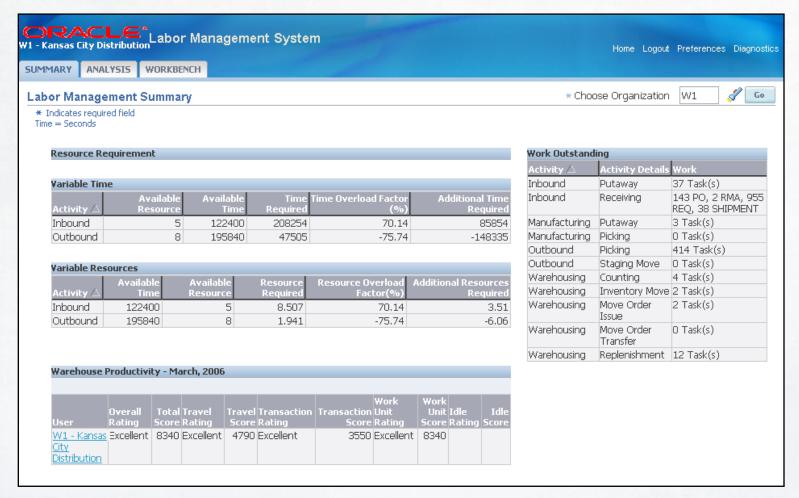




### WMS – How can I manage tasks & resources?



#### Labor Management







### MSCA - What is different in picking?



ORACL	Oracle Mobile
Query Pick	wave MO(M1)
SO Num	66394
MO Num	S.
Pick Slip	A.
Deliv Num	A.
Item	A.
Serial Tr	iggered (S) Query (Q)
Cancel	C
Cancel (	C)



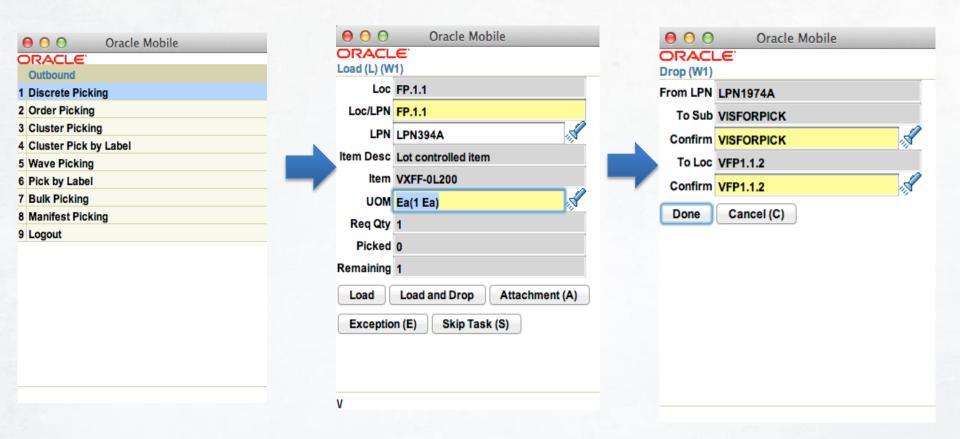
ORACL IO Allocat	
Item	BXRA-W0400
Confirm	BXRA-W0400
Rev	A
Confirm	A
From Sub	FGI
Confirm	FGI
To Sub	Staging1
UOM	Ea(1 Ea)
Avail Qty	87
Req Qty	2
Confirm	2
Remaining	2
Lot	S00288
Confirm	S00288





# WMS - What is different in picking? RedLine





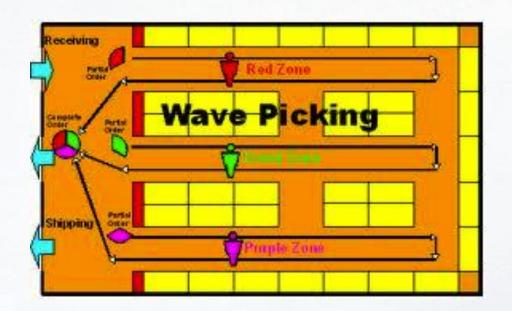






#### Pick Methodologies – Wave Picking

- Multiple people picking the same orders
- Efficient pick path routing
- Consolidation of orders at staging









#### Pick Methodologies - Cluster Picking





#### Pick & Pack multiple small orders

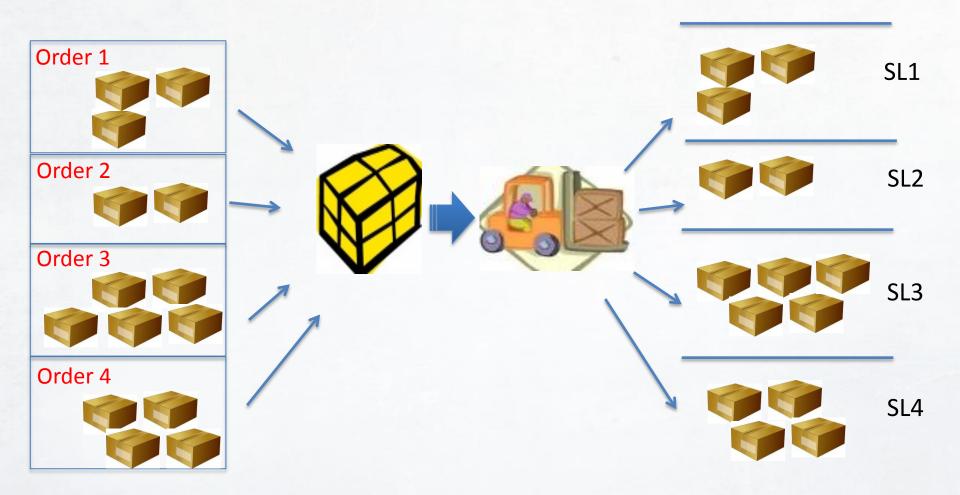
Large number of orders of average volume needs to picked Pick area is large and travel time is a concern







#### Pick Methodologies - Bulk Picking









#### Pick Methodologies – Pick & Pass



- 'Bucket Brigade'
- People segregated by zones
- Cartonization pack as you pick
- ➤ High volume, small order picking





### WMS – What can I do with the Rules Engine?



Optimize warehouse storage Putaway Allocate per customer and business requirements Pick Assign tasks to appropriate resources Task Types Compliance labeling Labels Assign ownership automatically **Cost Groups** Model multi step inbound flows **Operation Plans** 

No customizations required!





# MSCA – What benefits can I expect? Red



**Reduction in labor costs** 

Reduced shrinkage

Reduction in data entry time

**Reduction in inventory levels** 

**Reduction in errors** 

Reduction in turnaround time

Improved customer satisfaction





# WMS - What benefits can I expect? Ret



All the benefits of MSCA

**Better efficiencies** 

**Better Warehouse space utilization** 

More throughput

**Increased Productivity** 

**Increased Flexibility** 

**Reduced inventory levels** 

**Reduced labor costs** 





### **Solution Comparison Summary**



	Oracle WMS	Oracle - Mobile Supply Chain
LPNs	Yes	No
Ability to integrate with Barcode Scanners	Yes	Yes
Rules Engine	Yes	No
Task & Resource Management	Yes	No
Material Status Control	Advanced	Basic
Inventory/Lot/Serial Tracking Feature	Advanced	Yes
Labeling	Advanced	Yes
Integration Costs	N/A	N/A
Infrastructure costs	Similar	Similar
Locator Control	Mandatory	Optional
Implementation Duration	Higher	Lower





# What is right for me?



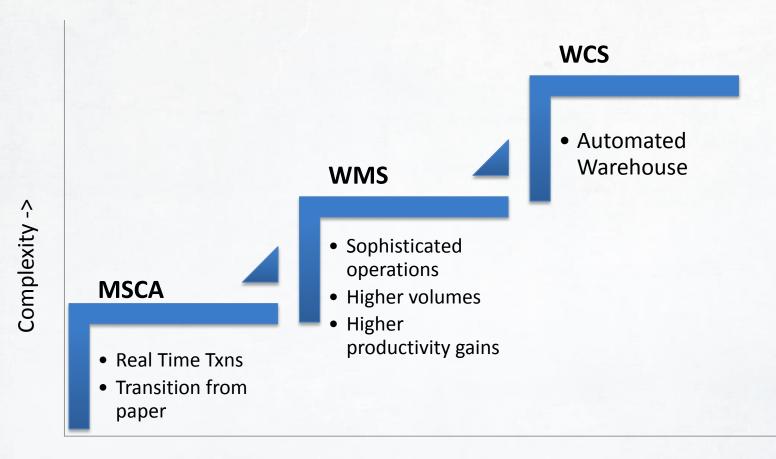






# Step up to the right solution





Volume & Velocity ->





#### Oracle Infrastructure Requirements RedLine



# Hardware and Software to Support your Mobile Deployment





# Oracle Infrastructure Requirements RedLine



# Mobile and wireless devices used with Oracle supply chain











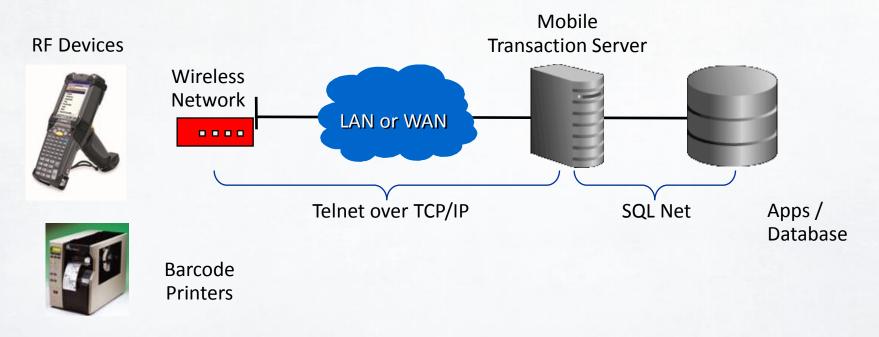


#### **Basic Overview**



#### Key Items

- MWA server
- Wireless infrastructure and security management
- Mobile devices and device management
- Barcode printers & software

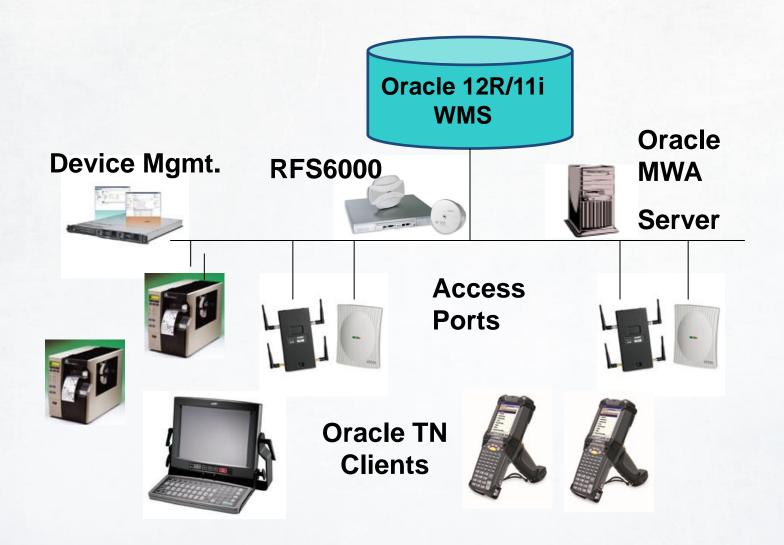






# Oracle WMS/MSCA Infrastructure RedLine







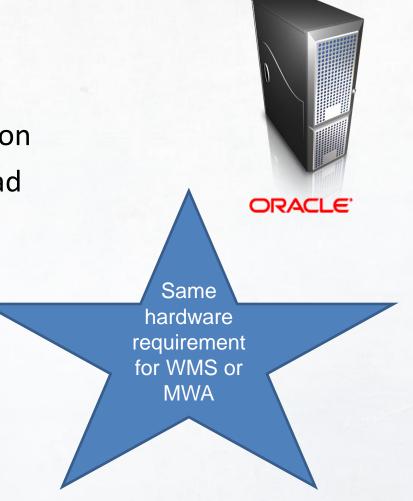


#### **MWA Server**



## What does it do?

- Mobile wireless application server
- Connects mobile devices to application
- Scalable architecture with built in load balancing capabilities using MWA dispatcher
- Telnet and GUI clients







# **Mobile Computers**



#### Rugged MC92NG with built-in Telnet





Economy minded MC3290



Vehicle-Mount VH-10







# Durability Specs, MC9XXX



- 6 foot drop to concrete
  - Operating:
    - Color (-10° to 50° C)
    - Mono (-25° to 50° C)
- IP64 sealing
- 2000 one-meter tumbles









#### Oracle Telnet vs. GUI





Feature	Telnet	GUI
User Interface	Character Based	Visual Form
Max WIFI Security	Yes	No
Speed	Faster	Slower
Our Config. Time	3 hrs	16 hrs

Hours listed are one time set up of mobile clients





### Wireless Network



- Switch / controller based architecture
  - Allows for redundancy
  - Browser-based configuration console
  - The access points provide WIFI to devices
  - Optional wireless network security intrusion detection
  - Site Survey is basis for site specific wireless requirements









## Wireless Device Management Software



- Provides central console for device management
- Helpdesk tool for remote users
- Insures devices have
  - Same local settings
  - Same programs
  - Same configuration for wireless network
  - Remote desktop support

















# Barcode Printing with Oracle RedLine



- Uses BI Publisher
- XML data strings
- Automated label printing triggered by specific business events
- Rules-based framework for label selection (WMS)
- Direct printing to XML enabled printers as well as through print servers (ZEC, Loftware, etc.)

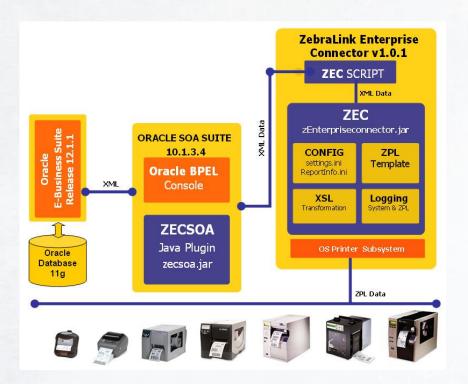




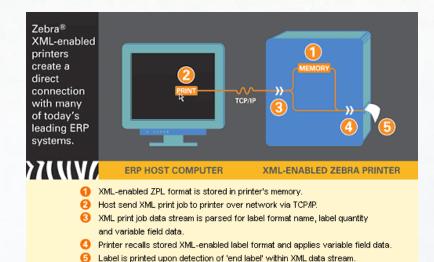
## Oracle Barcode Printing Options



#### **Enterprise Print Server**



# XML Printer and Design Software







# Oracle Barcode Print Vendors & Options RedLine



Vendors	XML Printer and Design Software	Enterprise Print Server
Zebra	Yes	Yes- ZEC
BarTender	Yes	Yes
Loftware	Yes	Yes-Oracle Connector
Other	Yes	General Print Server

Method	XML Printer and Design Software	Enterprise Print Server
Number of Sites	1	Multiple
Number of unique Labels per print job	Under 50	Over 50
Number of Printers	1-10	Over 10
Set Up Time	Less	More







#### ORACLE'

 RedLine Solutions helps you mobilize your Oracle R12 E-business Suite implementations











# Strategic Partners















## Q&A





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