Oracle E-Business Suite Logistics Strategy and Updates

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Program Agenda

1. Strategy
2. Update
3. Roadmap
4. Key Takeaways
5. Questions
Strategy
Oracle’s Investments for EBS Customers

Leverage EBS Strengths Combined with Broader Oracle Cloud Portfolio

UPTAKE EBS ENHANCEMENTS

Functional Innovation

Modern User Experience and Mobility

Operational Efficiency

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EBS Logistics: 12.2

Key Enhancements

- Inventory Management Command Center
- UX: New HTML UIs, MSCA for Android and iOS*
- Flexible Material Tracking
- Enhanced Transportation Mgt (OTM) Integration
- Warehouse Throughput Efficiencies
- Advanced Catch Weight
- Yard Management+

+ New Product
* Available for 12.1.3 and 12.2
Strategy

Continuous Innovation

• Process Optimization
• User Productivity
• Modern User Experience
• Visibility & Insight

Return On Investment
Process Optimization

Continuous Innovation

- Multi-UOM Fulfillment
- Zone Management
  - Counting/Picking/Labels
- Serial Tagging
- Material Classification
- Task Types for Cycle Counting
Dual Units of Measure Control

Dual Units of Measure: Item tracking using 2 units of measure

Fulfillment Base: The UOM for picking and shipping

Nominal Conversions: Nominal or average conversions

Catch Weight: Capture ‘actuals’ for invoicing
Multiple Cycle Count Task Types
Assigns best resource to the task

- Define multiple cycle count task types
- Enhanced WMS Rules Engine to assign cycle count tasks to the appropriate user
Zone Based Counting and Picking

Optimized Workforce Management

- Generate and schedule cycle count requests for a zone

- Zone Counts can be initiated via
  - Concurrent Program
  - Mobile UI
Material Classification Code

Supports Country of Origin Tracking

• Setup classification types
  – Country Of Origin, Packaging Code, Refurbished
  – Can be unique to each Item

• Capture classification code
  – Picking
  – Shipping

• Print classification code
  – Shipping paperwork and labels
User Productivity

Continuous Innovation

• Drop by Location
• Skip Task
• Optional Lot Allocation
• Inbound Task Dispatching
• Nested LPN Picks
Drop By Location
Reduce Redundant Key Stokes

- New Mobile UI ‘Drop by Location’ created to drop all the loaded LPN
- User Scans/Enters the Subinventory and Locator
- List of LPNs to be dropped are displayed
Mobile Task Dashboard

Load (W1)
- B1: Attachment
- B1: Ship Instructions
- B1: Pack Instructions
- Task Group

Task Group (W1)
- No. of Tasks: 3
- No. of Items: 1
- No. of Subs: 2
- No. of Locs: 2
- No. of Cartons: 2
- Task Number

Cancel  From Sub  Done
ACOS1  WM100
BULK  WM100
ACOS1  WM100
User Experience

Continuous Innovation

- MSCA for Android & iOS
- Mobile Inventory
- Task Management
- Inbound Operations
- Shipping Operations
- Material Workbench
MSCA for Android & iOS

User Experience

MSCA

Mobile Inventory

MSCA
Receiving Operations

Enhanced User Experience

- Info-tiles
  - Summary view
- Detachable tables
  - Easy data capture
Shipping Operations

Enhanced User Experience

- Info-tiles
  - Summary view
- Detachable tables
  - Easy data capture
Material Workbench
Enhanced User Experience

- Breadcrumbs
  - For drill-downs
- Facets
  - For refinement
Task Management
Enhanced User Experience

- Breadcrumbs
  - For drill-downs
- Facets
  - For refinement
Visibility & Insight

Continuous Innovation

• Inventory Command Center
  - Shipping Dashboard - GA
  - Cycle Counting Dashboard – GA
  - Aging Inventory Dashboard – GA
  - Receiving Dashboard – Roadmap
  - Activities Dashboard – Roadmap
  - Resource Management - Roadmap
  - Space Utilization – Roadmap
  - Reservations - Roadmap
Strategy

Visibility & Insight: Enterprise Command Center

- Advanced Visualizations
- Exploratory Data Analysis
- Guided Discovery
- Insight
- No ETL tool
- Drag & Drop Design
EBS Enterprise Command Centers

Identify and Act on Priority Transactions without Custom Operational Reporting

Information-Driven Navigation

• Browse and drill on actionable indicators
• Use consumer-like search and filters
• Displayed data recalculated with each drill
• “Conversation with the data” to narrow in on most important priorities
• Take action on selected transactions
• Operational analytics embedded in EBS
EBS Enterprise Command Centers
Easy to Deploy in EBS 12.2 environment

- Deploy with EBS 12.2
- Supports EBS 12.2.4 and above
- Integrates with EBS UI
- Honors EBS Security
- Multi-Lingual Support
- Extensible with ECC Framework
- No additional costs for licensed users of base products
Strategy

A successful track record

Continuous Delivery

Continuous Innovation

Return On Investment
Continuous Innovation on EBS 12.2

Continued Investment and Support for Years to Come without Major Upgrade

PREMIER SUPPORT THROUGH:

• **Release 12.1**: Dec. 2021
• **Release 12.2**: At least 2030

Latest Release
12.2.9 Update
EBS Logistics: 2019 Highlights

Key Enhancements

- Inventory Management Command Center
- Inventory: Aging Inventory Dashboard
- Inventory: Cycle Counting Dashboard and Approvals
- Inventory: Streamlined Backorder Processing
- MSCA: Advanced Barcode Scanning
- WMS: Verify Pick
Inventory Management Command Center

Streamline Inventory Activities and Quickly Act on Exceptions

• Proactive Materials Management
  – Maintain accurate quantities and values
  – Maximize the value of aging inventory
  – Improve fill rates and customer service

• Optimize Order Fulfillment
  – Prioritize late orders and backorders
  – Expedite high priority orders
  – Integrate transportation activities
  – Complete fulfillment activities on time
Aging Inventory

New report includes user configurable age buckets

<table>
<thead>
<tr>
<th>Traditional Report</th>
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<tbody>
<tr>
<td><strong>Organization</strong></td>
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<tr>
<td><strong>Category Set</strong></td>
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<tr>
<td><strong>Category From</strong></td>
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<tr>
<td><strong>Category To</strong></td>
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<tr>
<td><strong>Item From</strong></td>
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<tr>
<td><strong>Item To</strong></td>
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<tr>
<td><strong>Level</strong></td>
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<tr>
<td><strong>Cost Group From</strong></td>
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<tr>
<td><strong>Cost Group To</strong></td>
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<tr>
<td><strong>Bucket Days</strong></td>
</tr>
<tr>
<td><strong>Order By</strong></td>
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<tr>
<td><strong>Include Expense Items</strong></td>
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<tr>
<td><strong>Include Expense Subinventories</strong></td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>Dashboard</th>
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<tbody>
<tr>
<td>12.2.9</td>
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<tr>
<td><strong>vk-kit-item3</strong></td>
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<td>OM1-Standard-Item</td>
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<td>CTI-Stl-Item</td>
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<tr>
<td>AG_Histon</td>
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<td>ASE4888</td>
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Aging Inventory Dashboard

Streamline Inventory Activities and Quickly Act on Exceptions

- **Minimize Carrying Costs**
  - Optimize space utilization
  - Maximize labor efficiency

- **Control Inventory Turnover**
  - Maintain FIFO and FEFO allocations
  - Dispose of expired or obsolete items

- **Manage Aging Lots**
  - Identify and manage lots near expiration
  - Plan activities dependent on retest dates
Aging Inventory Dashboard

Enhanced User Experience

• Tracks date-based lot attributes
  - Expiration Date
  - Retest Date
  - Maturity Date

• Tracks quantity and value of each lot
Cycle Counting Dashboard
Actively Manage Cycle Counting Activities

- Track open counts
  - By schedule date
  - By due date
- Monitor pending approvals
  - Manage approval hierarchy using AME
  - Audit rejected counts
  - Track value change for completed counts
- Ensure all items are counted
- Summarizes existing reports
Cycle Count Approvals using Workflow

Customer Requested Enhancement

• Define approval hierarchies by quantity or value
• Assign approval hierarchies by item or item category
• Use Cycle Counting Dashboard to monitor approval status
Cycle Count Approvals
Using Approvals Management Engine

- Rules and hierarchies via AME
- Notifications via Mobile Approvals app and HTML
- Email notifications
Streamlined Backorder Processing

Streamlined Backorder Processing with More Flexibility and Automation

- Backorder delivery details without delivery 🔄
- API to backorder move lines
- Automated move for backordered materials from staging to storage 🔄
- Automated cancellation of unshipped lines for customers that don’t accept backorders 🔄
Automated Move of Backordered Material

Process Optimization

• New ‘Backorder’ action to directly backorder staged delivery details
• Auto-create Move Orders for Backordered Material
• Option to perform Auto or Manual Move Transaction
• Print Move Order Pick Slip
• Override Destination Sub-inventory using Custom Hook
Cancel Unshipped Quantities

“Fill or Kill”

- Ship available quantity and cancel remaining quantity in a sales order for Customer/Ship-To combination

- Behavior controlled by 'Cancel Unshipped Lines' parameter in Customer Account setup

- Appropriate warning/error messages are shown during Ship Confirm and other actions
MSCA: Advanced Barcode Scanning

Support Multi-Field Barcodes without Customizations

- Single scan populates multiple fields
- Better compliance with new FDA (GS1) and European (PPN) specifications
- Example use case:

  K6560*4K2*0100327241053030*Q1*SSN114*20LA MOCASE*21LAMO5.1.1
  - PO Number: 6560
  - Line Number: 2
  - Item GTIN: 00327241053030
  - Quantity: 1
  - Serial Number: SSN11
  - Sub/Loc: AMOCASE/AM505.1.1

- Available as backport to any 12.2 release.
Advanced Barcode Scanning
Enhanced User Productivity

• Rich and Interactive UI
  – Telnet, GUI, iOS and Android
  – Industrial and Mobile Devices
  – Character based input and scans

• Barcodes
  – 1D Barcode Scan
  – 2D Barcode Scan
  – Out of Order Scanning
  – Concatenated Barcodes (Limited)

• New Additions
  – Scan concatenated values for multiple fields
  – Scan Fixed and Variable length barcodes with option to configure value delimiters
  – Support scanning as per FDA (GS1) and European (PPN) compliance
  – Out of order scanning of delimited barcodes
  – Reduced Scans = Increased Efficiency
Verify Pick for Warehouse Management

Reduce Incorrect Shipments and RMAs while Improving Inventory Accuracy

- Option to verify SKU and quantity
  - Prior to dropping materials into staging
  - Prior to shipping materials
- Configurable option based on LPN and its contents
  - Select LPNs based on item, order, and task attributes
- Especially helpful to highly regulated industries: Life Sciences, Food & Beverage
  - Ensure correct lots and/or serials are shipped
## Verify Pick

### Frequently Asked Questions

<table>
<thead>
<tr>
<th>Who?</th>
<th>What?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Picker who completed the Pick Load Operation</td>
<td>• LPNs based on it’s content</td>
</tr>
<tr>
<td>- Typically valid for Experienced Operators</td>
<td>- Attributes that trigger verification</td>
</tr>
<tr>
<td>• Any Authorized User except the Picker</td>
<td>- Item</td>
</tr>
<tr>
<td>- Catching potential oversight by Trainees/New Hires etc.</td>
<td>- Sales Order</td>
</tr>
<tr>
<td>- Compliance Requirement in certain Industries</td>
<td>- Task</td>
</tr>
<tr>
<td></td>
<td>- Warehouse</td>
</tr>
<tr>
<td></td>
<td>- Customer-defined attributes</td>
</tr>
<tr>
<td></td>
<td>- Any combination of the above</td>
</tr>
</tbody>
</table>
## Verify Pick

### Frequently Asked Questions

<table>
<thead>
<tr>
<th>When?</th>
<th>How?</th>
</tr>
</thead>
<tbody>
<tr>
<td>• After Pick Load</td>
<td>• Leverage the Shipping Exception Framework</td>
</tr>
<tr>
<td>• After Pick Drop</td>
<td>• Trip/Delivery/Order with Open Pick Exceptions</td>
</tr>
<tr>
<td>• Before Ship Confirm</td>
<td>‒ Shipping is allowed with a ‘Warning’</td>
</tr>
<tr>
<td>• At Any or All of the above Operations</td>
<td>‒ Shipping is stopped with an ‘Error’</td>
</tr>
<tr>
<td></td>
<td>‒ Pick Exceptions can be resolved</td>
</tr>
</tbody>
</table>
Verify Pick

Simple Setup
Verify Pick

Simple Demo

- Dispatch picking task for 10 EA for item WM100
- Perform picking from BULK/B1.1.1
- Load and Drop material into LPN137A
- LPN gets marked for Verification Required
Verify Pick

Simple Setup
Verify Pick

Shipping Exceptions - Delivery Cannot be Shipped
Verify Pick

Resolve Exceptions

User is shown the Subinventory/Locator of the Pick Task. Helps in getting to the source of the exception.
Verify Pick
Shipping Exceptions – Exception Closed, Ready to Ship

System Tracks the 3 Users involved – Picker, Verifier and the one who Resolved the Exception
Verify Pick

Material Workbench – New Field ‘LPN verification Status’
Verify Pick
Public APIs for Custom Logic

• APIs to allow Custom Logic for
  - Mark specific LPNs for Verification Required
  - Determine the operation at which an LPN needs to be Verified
  - Integration with Weight Scales Systems for Weight Discrepancy Scenarios

• Public Package WMS_PICKING_AUDIT_PUB
Roadmap  (Subject to Change)
Appointment Enhancements

• Modern UI
  - Tablet Optimized, Drag and Drop, Better visualization
• “Dock Less” Appointment
  - Determine the exact Dock Door at the time of the Shipment/Receipt
• Appointments for all organizations
• Multi-Document Based Appointment
• Custom Attributes for Appointment Scheduling
• Appointment Portal Support
  - API driven for smarter Supplier/Shipper Integration
MCC at Receipt for Country Of Origin

Material Classification Code

- Capture COO at the time of material receipt.
- Allocate material by the COO.
- Print COO on the outbound shipment documents, like Packing Slip.
- View on-hand/availability by MCC.
Smart Order Release

Goals

• Prioritize order lines – Release Sequence Rule
  – Additional attributes – Order, Order Value, Schedule Ship Date, Departure Date, Shipment Priority

• View assigned priority - Shipment Report / Dashboard
  – View the assigned priority for order lines (and maybe tasks in WMS orgs)

• Manage work load
  – Control the number of order lines/tasks available for picking

• Minimize manual intervention
  – Automatically prioritize and release orders for picking
Receiving Dashboard
Streamline Inventory Activities and Quickly Act on Exceptions

• Track material by ‘Expected Date’
  ‒ View items and quantities
  ‒ For purchase order and internal orders

• Manage workload in receiving
  ‒ Track pending inspections
  ‒ Manage pending putaways

• Control the inbound flow
  ‒ Initiate receipts and inspections
  ‒ Complete putaways
Activity Dashboard
Proactively Manage All Activities

- Highlights status for all important material handling activities.
- Provides direct access to other dashboards for detailed information.
- Maintains recent transactions for historical comparisons.
Resource Dashboard

Monitor Resource Utilization and Productivity

• Track Activity by Resource
  – Labor
  – Equipment
• Analyze Resource Utilization
• Compare Resource Productivity
• Time tracking from MSCA
Space Utilization Dashboard

Monitor Space Utilization for Subinventories, Zones and Locators

- Track Activity by
  - Subinventory
  - Zone
  - Locator
- Identify comingled items and lots
- Show items and lots stored in multiple locators
- Support user-defined priorities for locators
- Highlight low priorities locators with high transaction rates
Takeaways
Takeaways

• Development for EBS Logistics continues full steam ahead
  ‒ Continued Investment and Support for Years to Come - Release 12.2: At least 2030

• Prioritize customer requested enhancements
  ‒ Please visit the EBS Logistics forum in the My Oracle Support Community

• Emphasis includes visibility and insight
  ‒ Inventory Management Command Center and related dashboards
Logistics in My Oracle Support Community
Participate in the Enhancement Process

• Create, comment, and vote on ideas
  – Available in 30 EBS Communities
  – Across EBS: ERP, SCM, HCM, Appstech

• High participation
  – 5K+ ideas for EBS created since 2014
  – 14K+ users and 75K+ comments

• EBS Development uses customer voting as input to product planning
  – Customers can vote an idea up or down
  – Many 12.2.x features are customer voted ideas
E-Business Suite (EBS) Summit
June 11-13, 2019
Oracle Headquarters
Redwood Shores, California
- Executive Briefings
- Inventory and WMS CABs
- No Registration Fee
Where to Find EBS News and Information:

www.oracle.com/ebs
EBS 2019 Innovations - Announcement and Video
Available under www.oracle.com/ebs > Resources > Announcements

• Oracle E-Business Suite 2019 Innovations (pdf)
• Oracle E-Business Suite 2019 Innovations (video)
Where to Find More Information on EBS

- EBS Documentation and Training
  - EBS 12.2 Information Center on MOS
  - EBS Release Content Documents
  - EBS Transfer of Info (TOI) Online Training
  - EBS Documentation Web Library
  - Enterprise Command Center

- EBS Learning Subscription via OU
  - learn.oracle.com/subscriptions/ebs
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• Interested in purchasing EBS?
• Want to expand your EBS usage?
• Need EBS licensing help?

• Contact
  – NA: licensesales-naa_us@oracle.com
  – EMEA: appslicensesales_be@oracle.com

Applications Unlimited
Upcoming EBS Logistics Sessions

• Smart Warehousing Using Oracle E-Business Suite Inventory Management Command Center
  ‒ Room: Moscone West - Room 2009B
  ‒ Date: 09/18/19
  ‒ Start Time: 03:45:00 PM

• Optimize Pick Pack and Ship with Oracle E-Business Suite Warehouse Management
  ‒ Room: Moscone West - Room 2022A
  ‒ Date: 09/19/19
  ‒ Start Time: 11:15:00 AM
Thank You