JD Edwards Update

Investment Strategy, Roadmap & Continuous Innovation

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Oracle, JD Edwards

April 2018

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JD Edwards

Safe Harbor Statement

The following is intended to outline our general product direction. It is intended for information purposes only, and may not be incorporated into any contract. It is not a commitment to deliver any material, code, or functionality, and should not be relied upon in making purchasing decisions. The development, release, and timing of any features or functionality described for Oracle's products remains at the sole discretion of Oracle.

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Program Agenda

1 ▸ Release 9.2 and Continuous Innovation

2 ▸ Review of Recent 9.2 enhancements

3 ▸ Continuous Adoption

4 ▸ Roadmap – Future Planned enhancements

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FOR APPLICATION DEVELOPMENT & DELIVERY PROFESSIONALS

Create A Business Application Road Map For The Digital Age

Road Map: The Business Applications Playbook

by Paul D. Hamerman
June 10, 2016

Why It's Important
- Stabilize costs
- Leverage new technologies
- Adapt to changing needs
- Support revenue lifecycles

Four Stage Approach to Road Map
1. Assess Current Application Portfolio
2. Set the Vision and Strategy
3. Define the Target Architecture
4. Build the Phased Road Map

Source: Quest Exclusive Content

EnterpriseOne Support Timeline

Support EnterpriseOne 9.2 to <u>at least</u>

2028

10 + 3 Years

JD Edwards EnterpriseOne Product Roadmap

Want to see our Product Roadmap?
Visit MyOracleSupport

JD Edwards EnterpriseOne Release 9.2

2018 Feature Highlights – Release 9.2 Code Line

Feb 2018	April 2018				
• Lease Management Enhancements for Property • Simplified Upgrade Enhancements	• UX One Navigation • Mobile Employee Time Entry Phone App • Notifications Framework: Administrator assigned subscriptions • Pre-configured Notification content	• Orchestrator Recorder • Orchestrator launch of batch jobs • Orchestrator Scheduler Enhancements • Confirmed orchestrations & messages • Orchestrator File Transfer feature • Orchestrator Studio version 6.1	• Form Personalization: Override Grid Labels • Form Extensibility: Hide Form/Row Exits • Form Extensibility: Include Business View Columns	• Oracle WebLogic Server 12.2.1.3 • Oracle ADF 12.2.1.3 • Oracle Mobile Application Framework (MAF) 2.5 • Oracle Developer Studio 12.6 • Platform Neutral Provisioning for Microsoft Stack and iSeries	• HCM Paid Sick Time Compliance • Electronic Submission of OSHA 300A • Lease Management Enhancements for Equipment and non-Property • Localization Updates • Single Touch Payroll - Australia

Platform Certifications, Security, Legislative & Regulatory Enhancements

Visit LearnJDE.com for details

Digital Business Transformation

BUSINESS

OFFER GREAT PRODUCTS
SUPERIOR SERVICE LEVEL
SOCIAL MOBILE RECRUITING
WIN CUSTOMERS
TALENT CRISIS
WORKFORCE ENGAGEMENT
SEGMENT OF ONE
SINGLE VIEW OF YOUR ACROSS ALL CHANNELS
PROCESS STANDARDIZATION

REGULATORY COMPLIANCE
PLANNING, IFRS15 & ASC606
BUDGETING & FORECASTING
COST REDUCTION
OPERATIONAL
PROFIT GLOBAL
MARGIN
AGILITY
EXPANSION
Financial Consolidation
INVENTORY MANAGEMENT
IOT TRANSPORTATION
LOGISTICS WAREHOUSING

TECHNOLOGY

INTERNET-OF-THINGS
SOCIAL MACHINE LEARNING
CHATBOTS VIRTUAL
IN-MEMORY REALITY
BITCOIN AR
BIG DATA
HYBRID MOBILE
CLOUD

PREDICTIVE 3D PRINTING
ANALYTICS REAL TIME DATA
ARTIFICIAL SCIENCE
INTELLIGENCE GESTURE CONTROL
SAAS OPEX DATA
CAPEX
VOICE CONTROLLED
AUTONOMOUS DRIVING
DRONES SENSORY DATA

COMPETITION

UBER TRANSPORTATION LYFT PAYMENTS / POS
DIDI SQUARE
TAXI.EU iZETTLE
NETFLIX MUSIC
SPOTIFY PANDORA
YOUTUBE MUSICAL.LY
MOVIES

MORTGAGES / INSURANCE
ROCKET MORTGAGE AXA
METROMILE ALLIANZ
ELECTRIC CARS TESLA
AZIMO
FINTECH RIPPLE KICKSTARTER 4D PRINTING SELF-ASSEMBLY
CARBON LAB
RETAIL JUST EAT FOOD
INSTACART
ZAPPOS

JD Edwards Digital Business enablers

| Enabler	Why it's important
UX One	Umbrella term for the modern JDE UI
Application Interface Services	Foundational integration tool
Orchestrator	Process Automation, Integration, IoT
Orchestration	Automation of your business processes
Watchlist	Application Exception based alerts
Notification	Flexible Alerting wherever you are
Personalization framework	Personalize don't Customize
User Defined Object (UDO)	A Personalization for your business
Content & Experience Cloud	Collaboration and Document management platform
CaféOne	Single view of JDE and related external applications
Mobile Application	Access for users anywhere, anytime

Digital Transformation of JDE

Transform your processes

- Automation of manual tasks
- Eliminate errors
- Process compression
- No code / low code

Online Work Order

AP Manager Chatbot Advisor

Procure to Pay Automation

Regulatory Compliance

Quality Test Automation

Automated Field Operations

Chat Bots

ADF/JET

AI/ML

JDE Digital Platform

Integration

Orchestration

RPA

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JD Edwards EnterpriseOne

Cloud

Extensibility

Notification

Mobile

Personalization

IOT

Blockchain
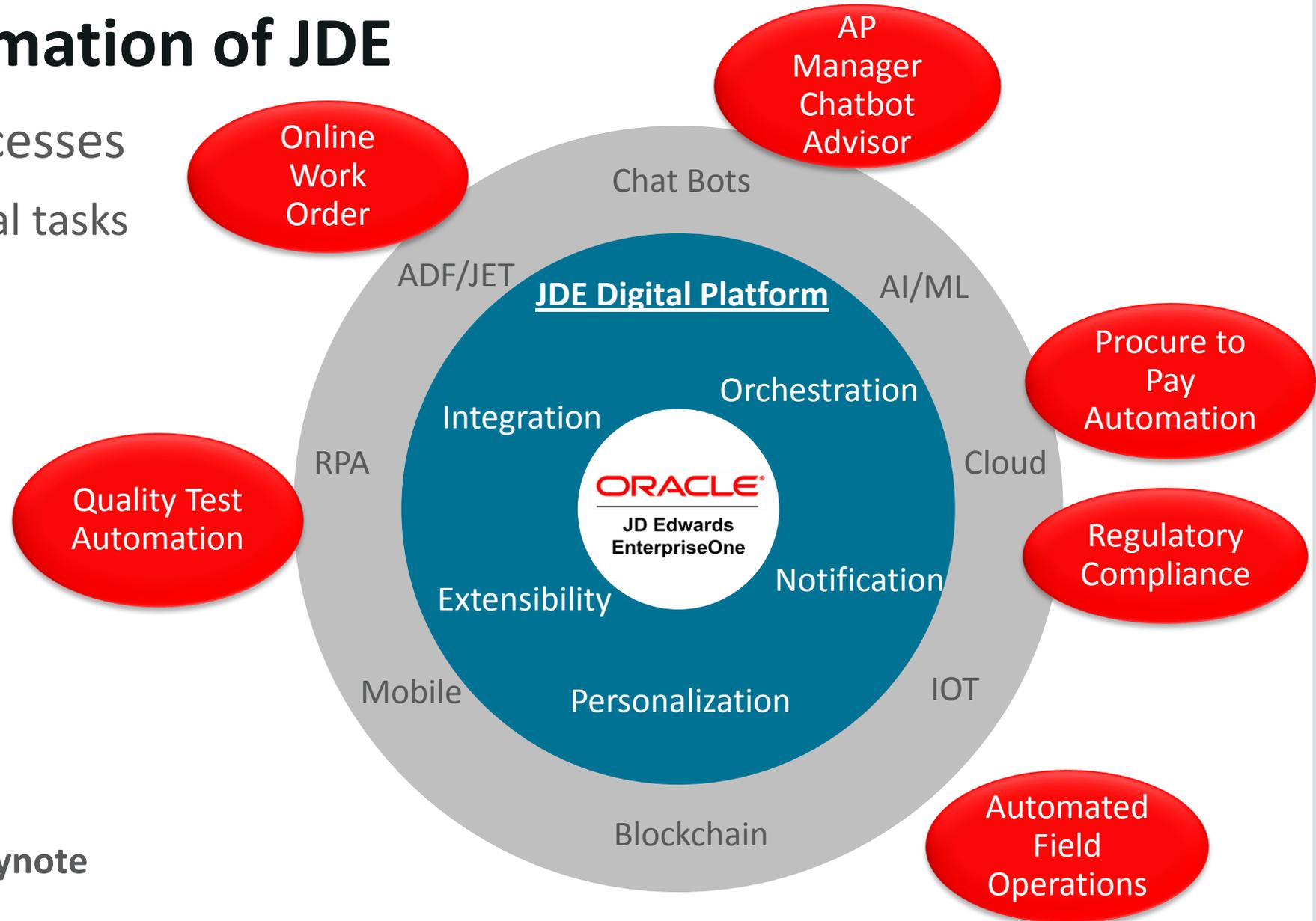
= What you saw in keynote

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JD Edwards Investing for Your Future
Enabling the Customer Journey into a Digital Enterprise

User Experience

ERP Modernization

Digital Technologies

Operational Simplification
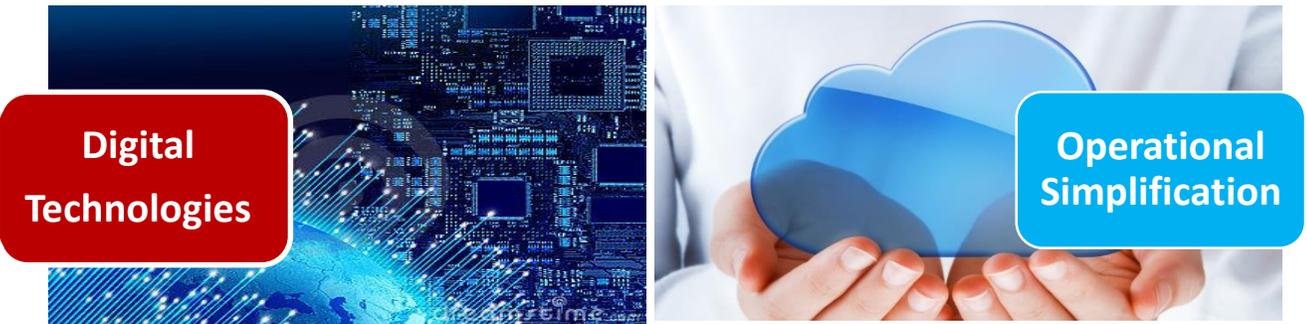
- **Personalized User Experience**
  - UX One, Personalization frameworks
- **ERP Innovations that Differentiate your Business**
  - Process Automation
- **Digital Technologies for Business Transformation**
  - Mobility, IoT, Orchestrator
- **Operational Simplification**
  - Cloud and On-Prem, System Admin

UX One User Experience – Leveraging Frameworks
Personalization and Configuration Over Customization


Page Composer
Watch lists & Springboard
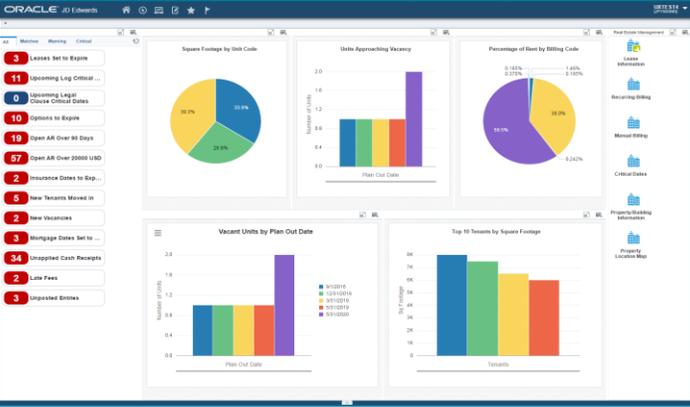
Café One
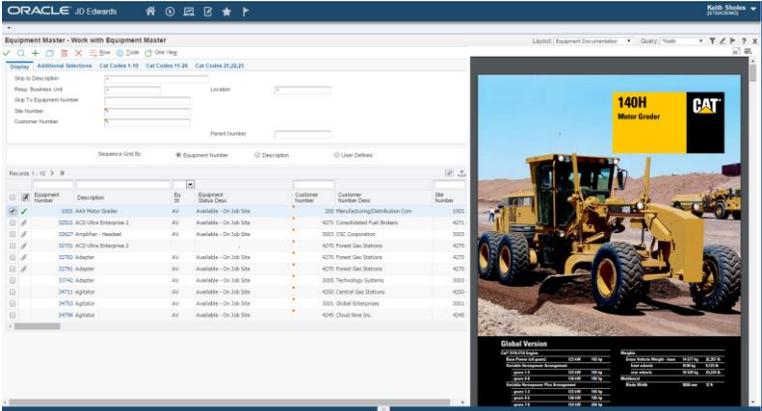
Form Personalization
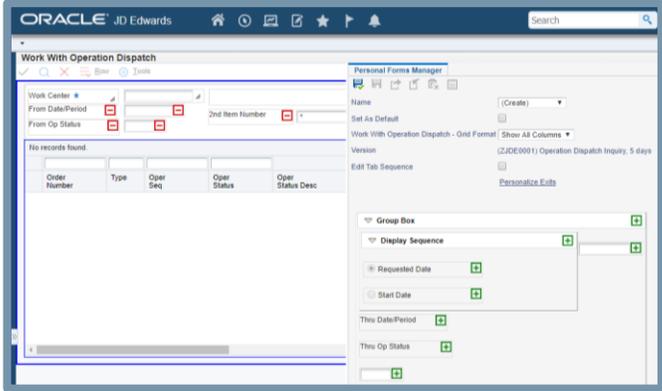
**Notifications**
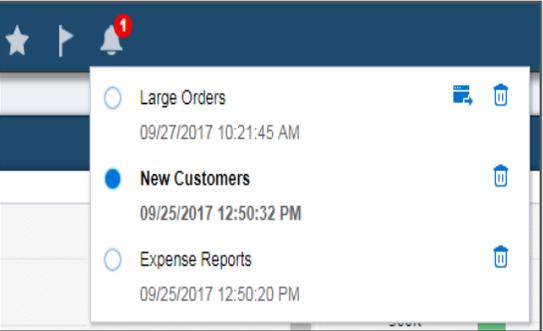
List View Grid Formats
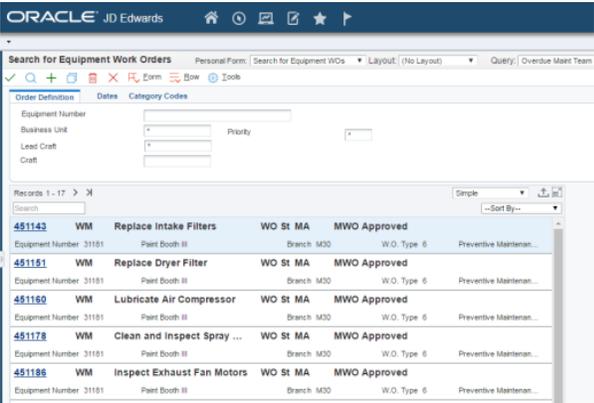
Search

Form Extensions
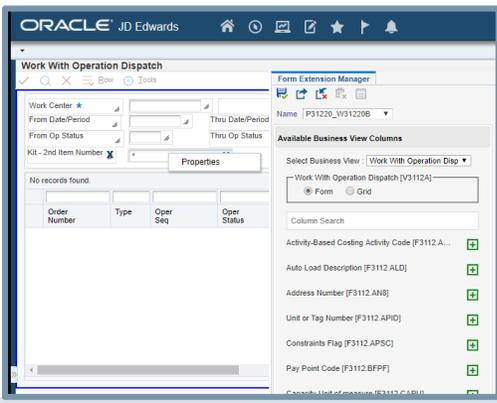
UX One - Role Based Landing Page   (52 Delivered)
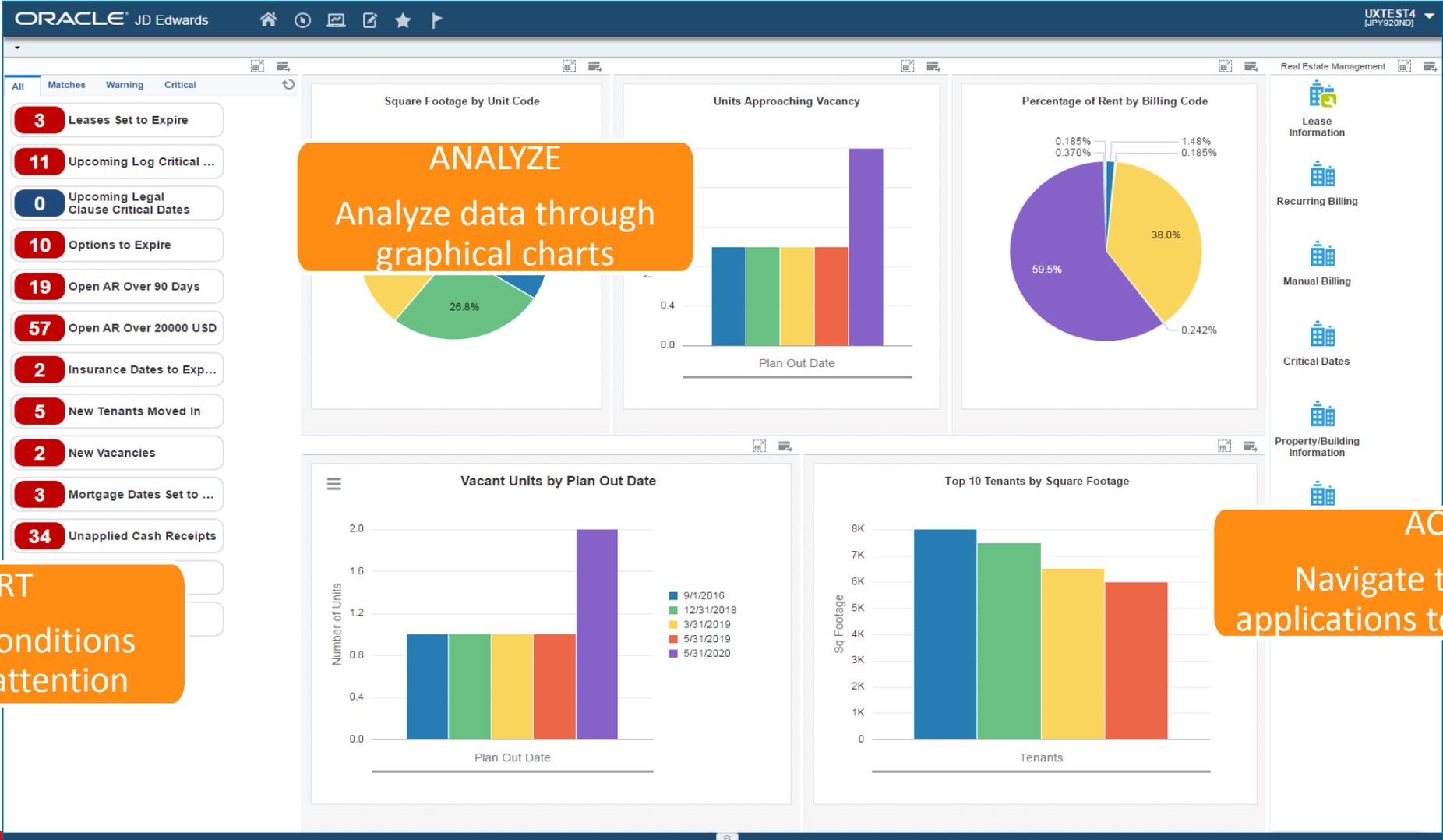
Recommended Sessions for JD Edwards UX One

Transforming the JD Edwards User Experience (111160)
Tuesday, April 24, 11:00 a.m. - 12:00 p.m. | Lagoon H


Implementing JD Edwards UX One (111170)
Tuesday, April 24, 1:15 p.m. - 2:15 p.m. | Lagoon H

JD Edwards Citizen Developer — Unleashing the Power of Configuration and Personalization (111180)
Wednesday, April 25, 9:45 a.m. - 10:45 a.m. | Lagoon E

EnterpriseOne Mobile Apps
Deliver business solutions at the point of process
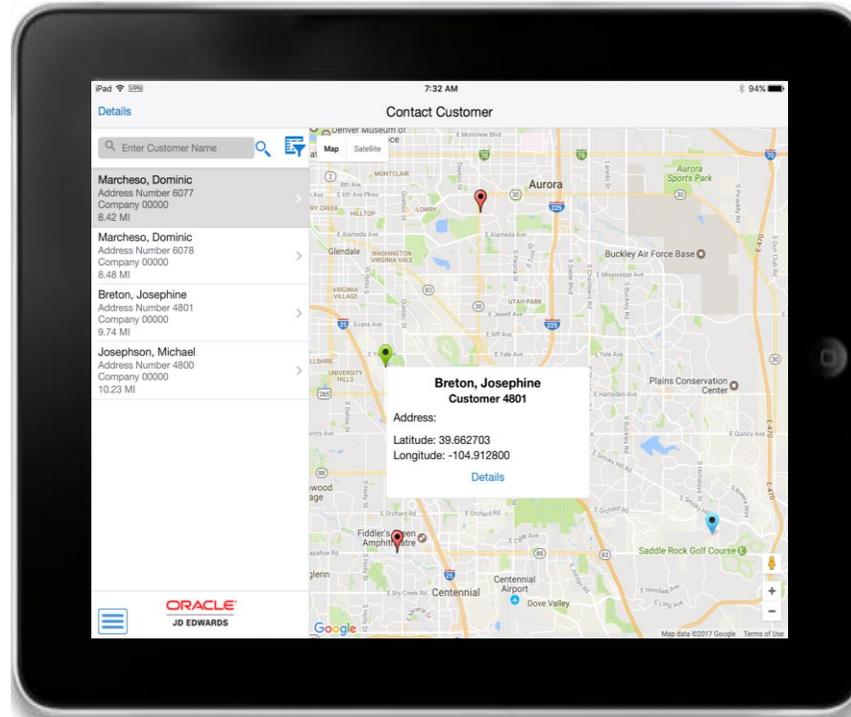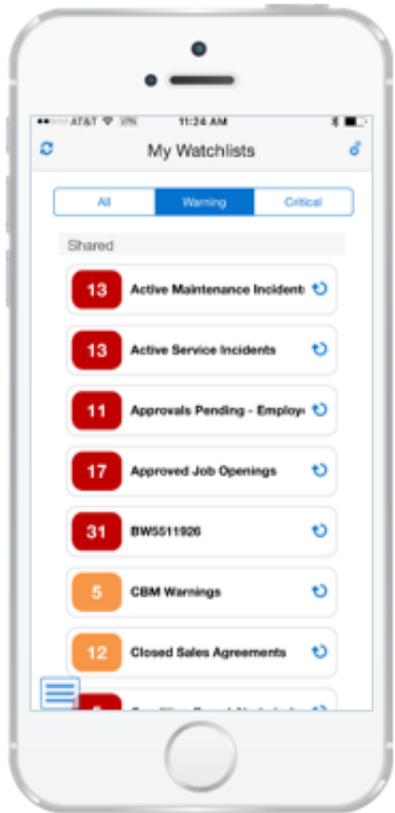
Recent Updates
- Mobile Watchlists
- Barcode Scanning
- Location Services
- Mobile Time Entry
- Mobile Inv. Transfers
- Mobile Cycle Count
- Mobile Cloud Service Integration
- **Mobile Employee Time Entry**

Basket Pricing for Procurement
Leverage Discounts and best Pricing for Products Purchased

- Automated structured method of discounting product purchases for related category items.

- Avert loss of savings

- Eliminate manual maintenance

- Maintain data integrity between purchase order and price history

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Orchestrator - Path to Digital Transformation

Mobile Applications

JDE UX One

Process Automation

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JD Edwards EnterpriseOne

Internet of Things

Oracle Cloud

Third-party systems

Your App Here

Application Interface Services

Orchestrator

JDE Apps

Business Logic

Business Data

Orchestrator Studio

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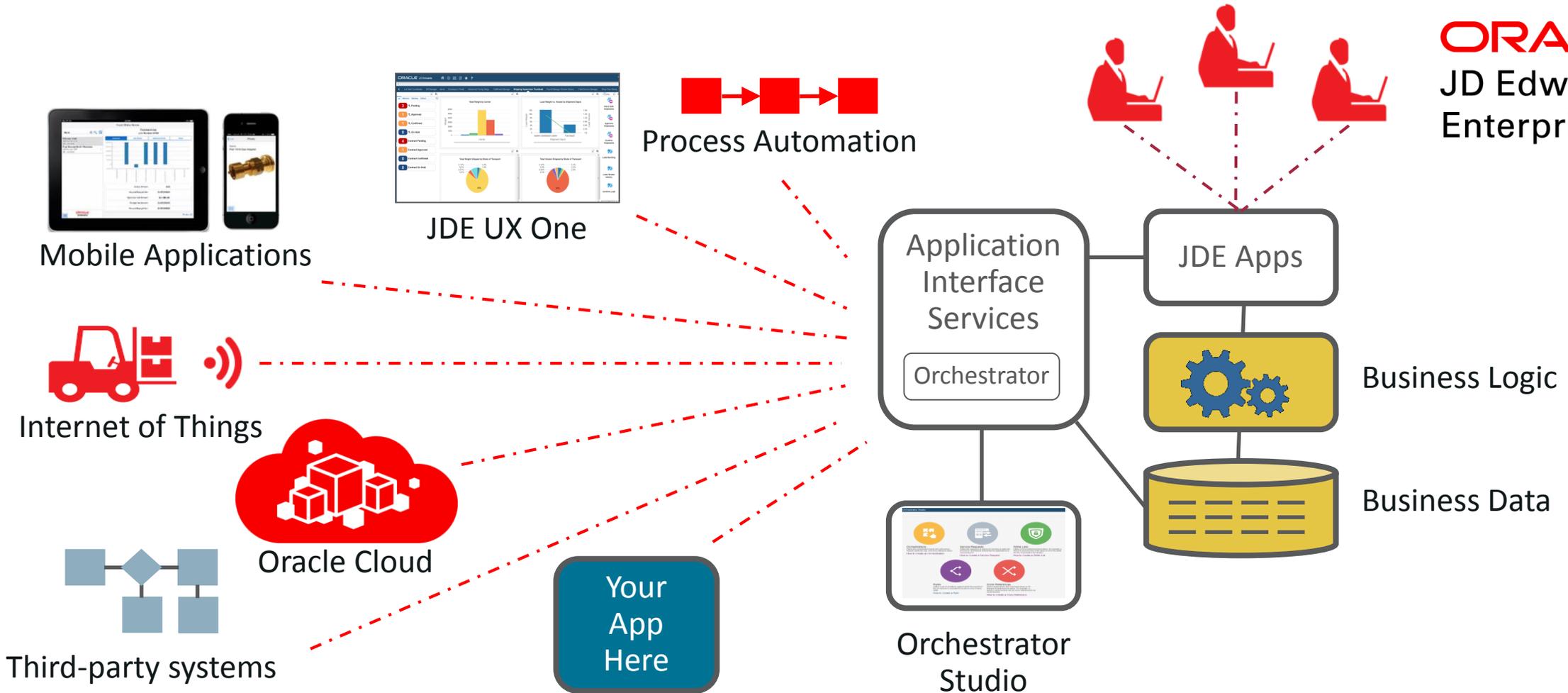
JD Edwards Orchestrations to Facilitate an Automation

Commonly Requested Enhancement to improve the Financial Close Process

Journal Entry Batch Approvals

- Batch approval required only for manually entered batches
- Machine generated batches automatically approved for posting

**JD Edwards Orchestrator to the Rescue!**

Create and schedule an orchestration to automatically approve all machine generated G/L Batches.

EnterpriseOne Notifications

Stay Connected and Act Fast

Providing immediate business value by delivering 35 pre-configured notifications

Notification Types

Proactive
Exception
Action Required
Informational

Notification Delivery

JDE UI "The Bell"

E-Mail

Browser Pop-Up

Text Message
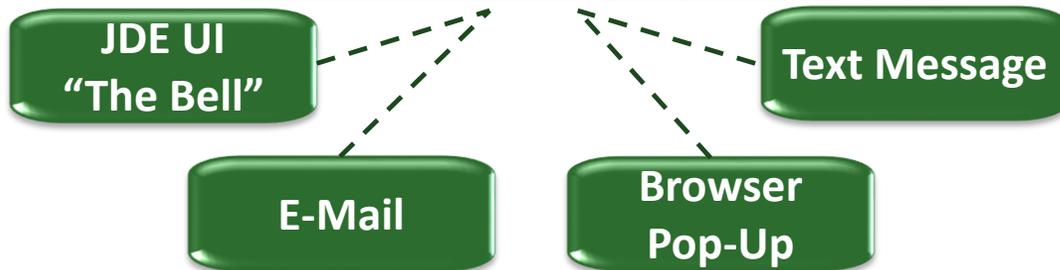
Accelerate the Order to Cash and Procure to Pay Processes

Expedite Approvals to Improve Process Efficiency

High Value Notifications Across the EnterpriseOne Suite of Products

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Notifications: Assigned Subscriptions

Business Analyst

Defines Notification
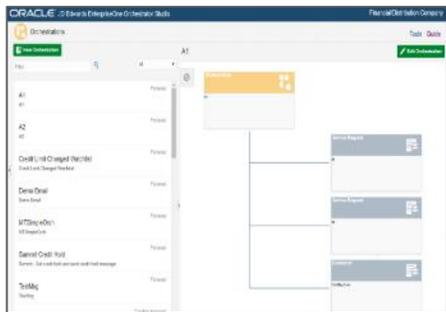
Business Analyst / Admin

Publishes Notification (UDO)
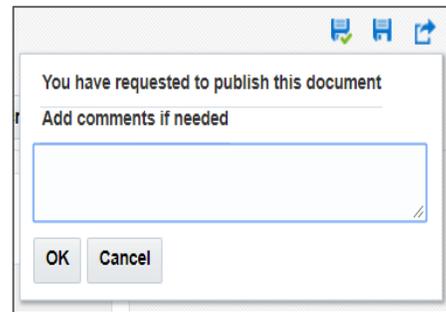
Assigner

Assigns Subscriptions to Roles
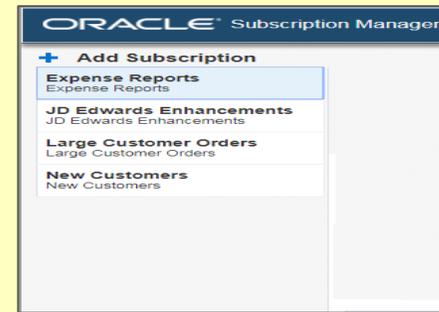
Subscribers by Role

Accepts/Opts Out/Overrides
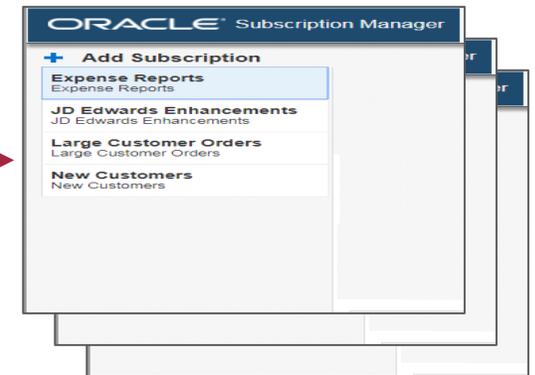
Sessions for JD Edwards Orchestrator and Notifications

Stay Informed and Act Fast with JD Edwards Notifications (111390)
Monday, April 23, 4:15 p.m. - 5:15 p.m. | Lagoon I

JD Edwards Notifications: Under the Hood (111400)
Tuesday, April 24, 11:00 a.m. - 12:00 p.m. | Lagoon I

Discover the Awesome Power of JD Edwards Orchestrator and AIS Server (111410)
Wednesday, April 25, 2:30 p.m. - 3:30 p.m. | Mandalay Bay

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Please check conference schedule to confirm times.

Manufacturing Production Execution

Process Modernization

- Gantt style graphical display of all work order operations
- Drag & drop work order scheduling
- Unexpected shortage triggers cycle count and notifications
- Warning notifications when operational yield is lower than expected
- Notifications of test/inspection failures awaiting disposition
- New mobile applications for Cycle Count and Inventory Transfers

Subject: Low Yield Warning

Operation 10.0 of work order number 579852 was completed with an output quantity less than planned.

Unexpected Shortage Encountered - Message (HTML)

From: JDE_NoReply@oracle.com Sent: Fri 9/22/2017 2:03 PM
To: David Greiner
Cc:
Subject: Unexpected Shortage Encountered

Item 26010 was issued incomplete to work order 458505 in spite of sufficient system quantities. The system has added this item to the shortage work bench and generated a cycle count request.

Shortage Workbench

Scheduled Work Order Operations

Close   View ▾ 🔍 🔍 Default ▾ ⟳ ↺

Work Order Information

Order Number	458513
Status	40
Item	98700
Description	Contraption, T1, Ersatz
Ordered	200.0000 EA
Completed	0.0000 EA
Scrapped	0.0000 EA
Start Date	10/16/2017
Requested Date	10/20/2017
Effective Date	10/20/2017

Work Center		Oct 9, '17 M	T	W	T	F	S	Oct 15, '17 S	M	T	W	T	F	S	Oct 22, '17 S	M	T	W	T
WC01	Capacity	39.2	89.2	39.2	39.2	104.2			39.2	-10.8	76.7	76.7	104.2			39.2	-10.8	76.7	76.7	99
Assembly	Load								200										
WC02	Capacity	72.4	72.4	72.4	72.4	72.4			72.4	72.4	72.4	9.8	76.6			139.2	72.4	72.4	9.8	76
Welding	Load								200.25										
WC03	Capacity	139.2	139.2	38.7	139.2	139.2			38.7	139.2	139.2	38.7	76.2			139.2	139.2	139.2	38.7	76
Paint	Load								100.5										

Leveraging Your Investment in JD Edwards with Oracle Cloud
5 Ideas which Offer Choice & Control to Achieve Business Goals

Business Drivers

Reduce Cost & Modernize IT

Improve Agility & Innovation

Reduce Risk

Increase Performance & Business Insights

Paths to Cloud

| Move and Improve | Extend and Enhance | Connect and Integrate | Disaster Recovery | Data Warehouse |

Value

| Move your existing JDE environment "As Is" to Oracle Cloud | Extend your JDE environment with platform services (PaaS) | Integrate your JDE environment with complementary Oracle and 3rd party SaaS | Deploy a disaster recovery or backup solution for production JDE | Move associated reporting, analytics and BI to the Oracle Cloud |

Move and Improve JD Edwards to Oracle Cloud Infrastructure
Running JDE on Oracle Cloud Benefits Your Business Without Business Process Change

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JD Edwards
EnterpriseOne

ORACLE®
Cloud

Leverage the
JD Edwards you **OWN**

Run the JD Edwards
you **KNOW**
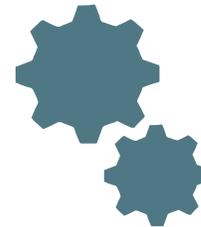
Differentiate through the
JD Edwards you **CONFIGURED**

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Move and Improve
Reduce Upgrade Time and Effort

OCI/On-Premise

9.02 or 9.1 Environment

Simplified Upgrade

Code Current 9.2 Environment
1. **Software defined infrastructure**
2. **JDE Provisioned by One Click**
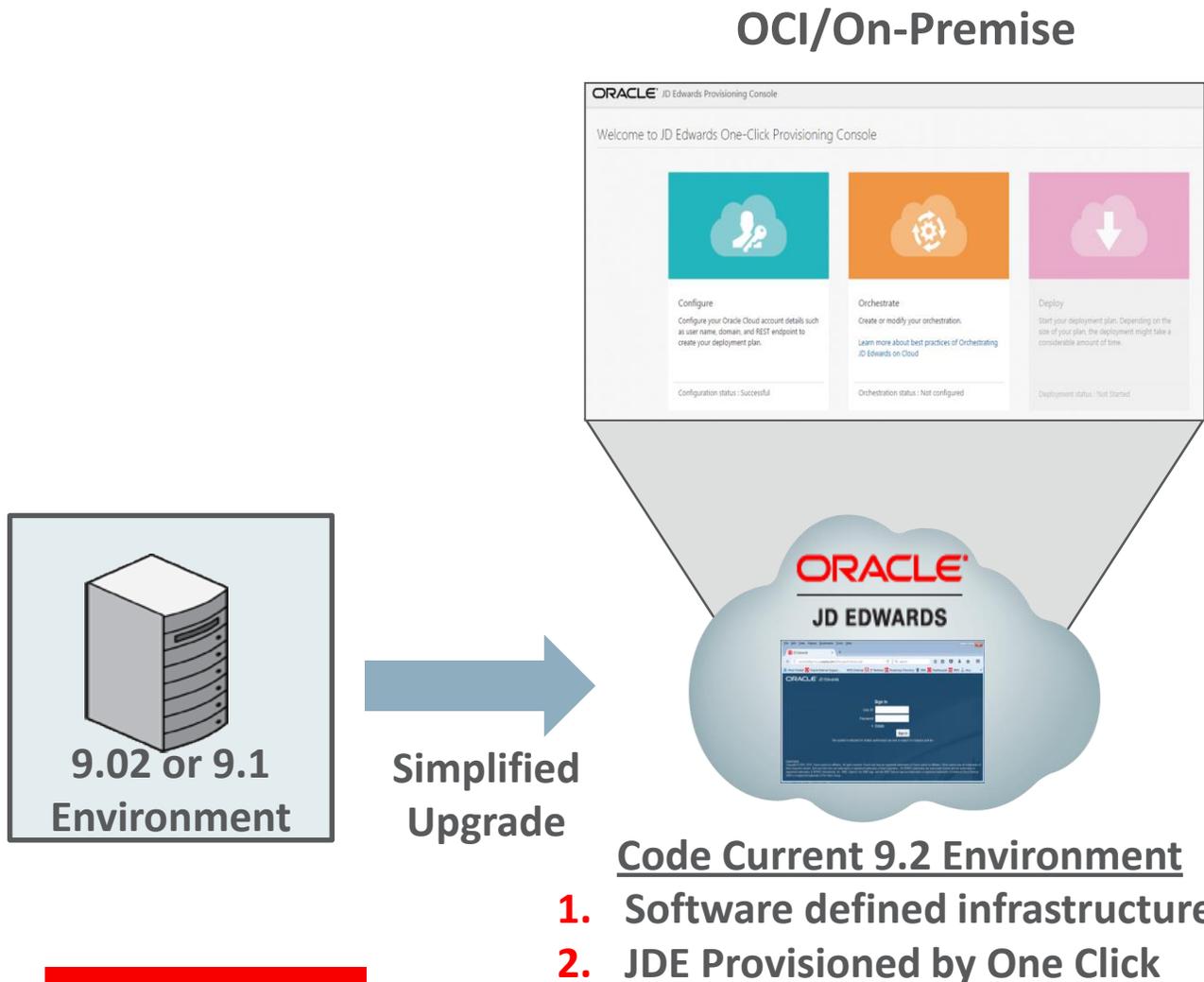
- Move to Cloud and Upgrade to 9.2 as a single process

- Accelerate Upgrades by removing the need to separately apply Apps and Tools Updates after initial install

- Currently supported for the Oracle Technology Stack

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Two Steps to Continuous Innovation for JD Edwards

EnterpriseOne 9.2 Continuous <u>Delivery</u>

- **Product innovation delivered by Oracle in smaller updates and Delivered on a more frequent basis**
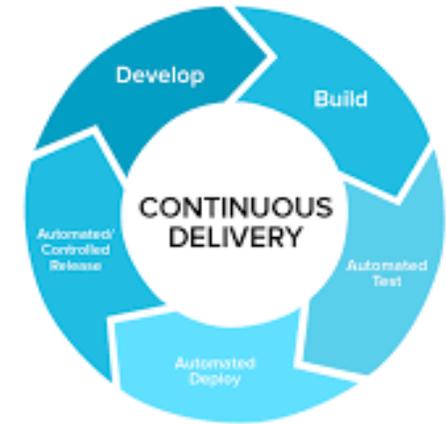

EnterpriseOne 9.2 Continuous <u>Adoption</u>

- **New releases adopted by customers to realize the value, on a regular basis, to reduce costly, disruptive upgrades**
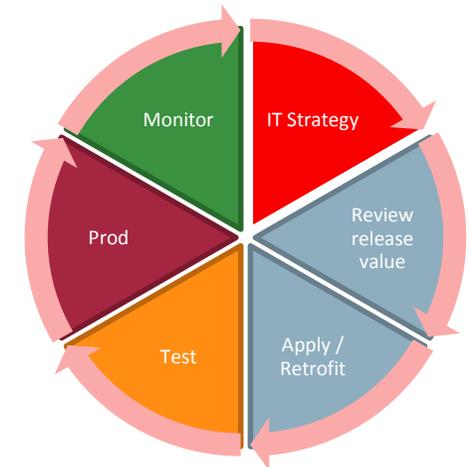
LearnJDE

- New Releases
- Search Content
- Product Catalog
- a lot more ...

Continuous Adoption Enablers

Tools to Stay Current

Helps you apply updates

Reduce Customization Footprint

Stay Code Current

Provide more insight for updates

Simplicity & Ease of Use

Personalization Framework

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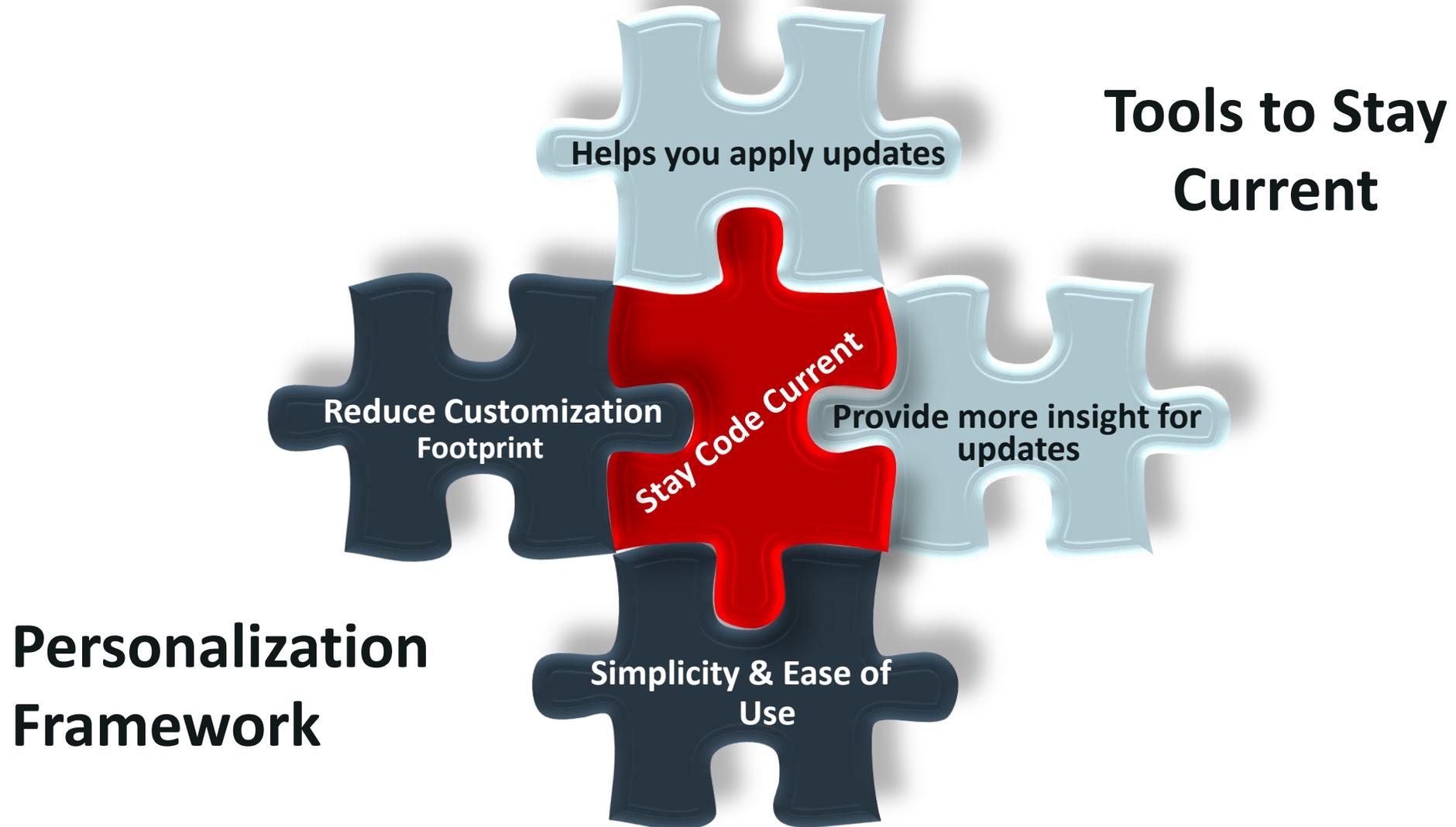
Object Tracking and Impact Analysis

The Who, What and When of EnterpriseOne application usage
**Discover the object usage and understand the impact of EnterpriseOne updates**
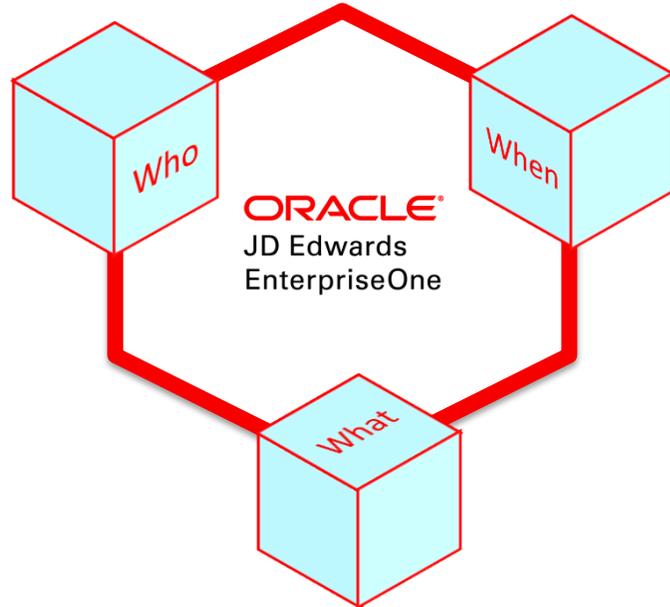
- **Which Customizations are being used or no longer used?**

- **What is the impact of an EnterpriseOne update on my users?**

- **Which Objects are being accessed and how often?**

- **Who is accessing EnterpriseOne object?**

- **When do I have Peak Load on my system?**

Getting to Vanilla
Guidelines to avoid, minimize or eliminate customizations

6 Step Process

	Step	Tips
1	Review latest JDE version	Product Catalog, Oracle Support via SR process
2	Understand processing options	Tailor the application to remain vanilla
3	Understand personalization framework	Use Personalization to remain vanilla
4	Consider business process change	Network with customers, Executive alignment
5	Consider Oracle Validated solutions	Partner solutions on latest release
6	Consider Customization	Extensibility Guide on MOS

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Value through Continuous Adoption

June 2017

Upgrade:
Apps 9.2
Tools 9.2.1.x
(CODE CURRENT)

July 2018

Cum Update:
Apps 9.2.2
Tools 9.2.2.x
(CODE CURRENT)

• Year end updates
• Legislative / Regulatory features

H&S: Reminders

Sales Repost

Form Personalizatio n

UX One for Finance

Enterprise Search

JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT
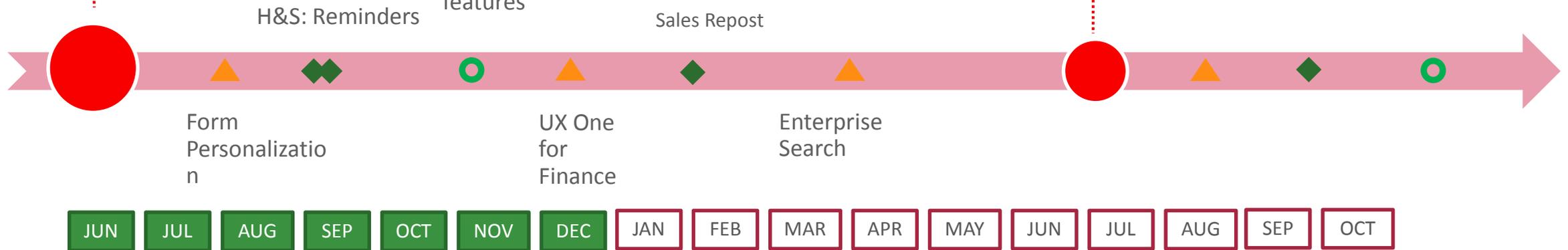
○ Leg / Reg

▲ Add on (new) features

◆ Business Process improvements

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Future EnterpriseOne Solutions

Planned

Planned and Research Highlights on 9.2 Code Line

Planned ➤ **Research** ➤

ERP Modernization
- Lease Term changes
- Lease Simplification
- Lease Conversion
- JVM Indirect Cost Management
- JVM Invoicing
- JVM Cutback Ledgers
- Picking Optimization
- Pre-configured Notification content

Digital Transformation
- Real Time Orchestration (Table event)
- Management and Monitoring of Orchestrations and Notifications
- Modernize Work Center
- Mobile Notifications w/MCS

Platforms
- Visual Studio 2017 & Windows SDK10
- Oracle Dbase 18c
- 64 Bit Enablement

Operational Simplification
- OCI Reference Architecture
- Guided Special Instructions
- Delivery of JD Edwards Trial Edition as a Container
- Platform Neutral Scale out
- Simplified UDO Management
- Simplified Upgrade on One-Click Provisioned Target Microsoft Stack

- Adaptive Intelligence
- Expanded Delivery Methods
- Personalization Frameworks
- Experience Extension
- Logic Extension
- Data Extension
- Easier Upgrades
- Automated Patching
- JVM Cash Calls
- JVM AFE's
- JVM Reporting
- JVM Purge & Archive
- JVM Allocations

- One View Scheduler Automation and Simplification
- Automation for Batch & Queue Management
- Mobile Attachments
- Mobile PO Receipt
- Mobile WO Issues
- Mobile Windows 10 Samples
- Override Billable Unit Price to Zero for Service Parts

- Global Lot Master
- LPN Enhancements
- Reverse Ship Confirm
- WO Activity Rules for Manufacturing
- WO Ledger for Manufacturing
- Base Price Interoperability
- Tax Overrides for Landed Cost
- Impact Analysis for Multiple ESUs

- Smart Grid and Smart Search
- Ease of Access and Configuration
- Conversational Experience: Chat bots
- Augmented Reality
- Artificial Intelligence and Virtual Assistants
- Proactive Administration
- Centralized Administration

Effect of New Lease Accounting Standard on Customers

Current Standard:

Rent:
- Office/Retail Space
- Equipment

Use AP:
- Make rent payments
- **Expense** rents

JD Edwards customers

New Standard:

Lease:
- Property Assets
- Equipment Assets

➜ Requires a leasing system:
- Manage lease terms
- Pay leases
- Account for leased **assets on the balance sheet**

Lease Accounting Enhancements

- Effective Dec 15, 2018 (Public companies), and Dec 15, 2019 (Private companies)

- Available for customers with a license of Financials

- Comes with a restricted use license of Real Estate Management

- For EnterpriseOne releases 9.1 and 9.2

Available *

- ✓ Revenue Recognition for Real Estate
- ✓ Lessor Accounting (FASB 13) for Real Estate - Straight Line Rent
- ✓ Lessee Accounting for property

Planned *

- Lease Accounting for non-property
- Lease term change management
- Lease conversion (finance to operating or operating to finance)
- Lease simplification

* This is for 9.2. Enhancements are being backported to 9.1 as they are completed in 9.2

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Joint Venture Management
New Capabilities Within JD Edwards Financials

Manage joint ventures to account for reported cost, revenue and infused cash in order to distribute net amounts to joint venture partners

- Date effective Percentage of Ownership
- Overhead
- Pro-rata share of Expense Revenue
- Authorization for Expenditure
- Cash Calls
- Allocations
- Invoices/ Vouchers to Partners
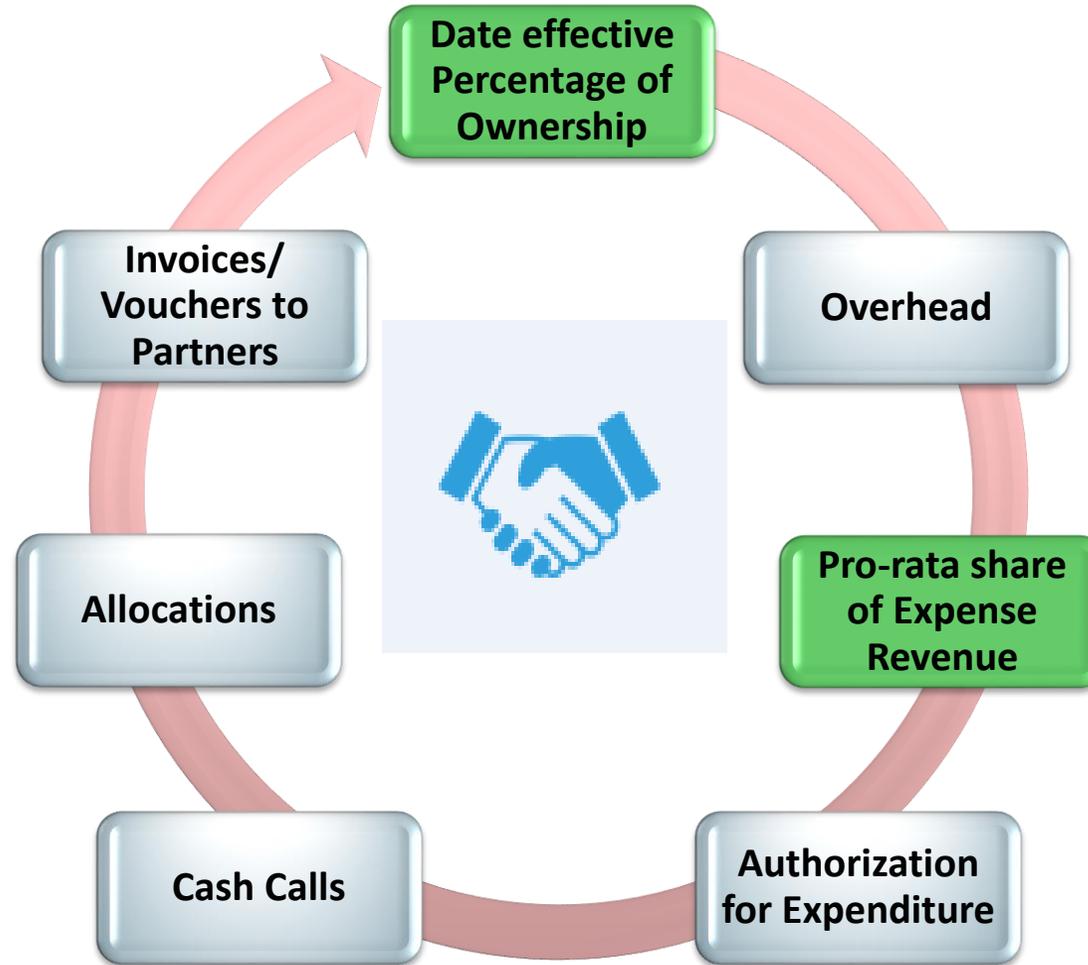
Agri-business

Construction

Oil and Gas

Automotive

Property Management

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Mobile Employee Time Approval

- Review and approve anytime, anywhere

- Increased efficiency and productivity in the time collection process

- Real-time visibility into submitted time cards

- Delegate approval authority

- Configurable columns and display order simplifies users experience

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Tablet

ORACLE JD Edwards EnterpriseOne

Phone

Mobile Notification to Mobile App with Bot Assistance

Contextual Launch

Contextual Interaction

JD Edwards One-Click Provisioning for Microsoft Stack

What

- Simplified, automated provisioning of JD Edwards EnterpriseOne to Oracle Cloud Infrastructure Classic for Microsoft Stack

Why

- Bring the benefits of Cloud to JD Edwards
- To reduce time, skill, and complexity to deploy JD Edwards EnterpriseOne to Oracle Cloud

How

- Microsoft Windows OS for all server Component
- Support Microsoft SQL Server and Oracle DB
- Utilities for Lift and Shift

JD Edwards Labs

Research and Development team which works on pioneering technologies and their intersection with real world business problems.

- Incubate prototypes, working with early adopters
- Anticipate next generation business
- Position JD Edwards to deliver first

Examples of technologies:

JDE Labs – Recent Completions

Virtual Assistants

- **Voice-Based Command**
- **Hands-Free Productivity**
- **Natural Language Interaction**
- **Low-Overhead Availability**

JD Edwards Labs on YouTube

Beacons

- **Automated Time-Tracking**
- **Equipment Locations**
- **Inventory Management**
- **Proximity-Based Alerts**

Cloud Containers

- **Low Infrastructure Costs**
- **Rapid Deployment**
- **Easy Duplication**
- **Process Simplification**

Containerized JDE Whitepaper

Autonomous ERP – putting intelligence into ERP

Autonomous ERP
- Machine Learning
- Assisted or Automated Decision making
- Adaptive Intelligence

Supervised ERP
- Robotic Process Automation
- Natural Language Interaction
- Assisted Decision making

Digital Platform ERP
- Mobile
- Internet of Things
- Collaboration
- Orchestrator
- Cloud

Traditional ERP
- Transactional
- System of record
- Data warehouse

Automation — High / Low

Machine Intelligence — Low / High

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JDE Labs – Current Initiatives

Adaptive Intelligence
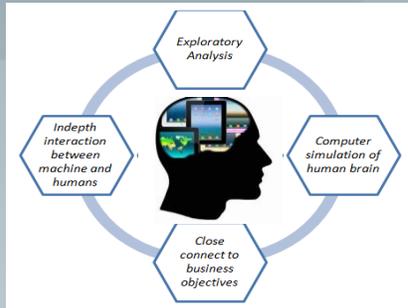
Modeling & Prediction · Big Data
Machine Learning · Decision making

Chatbots

Natural Language · AI powered conversations
Robotic Process Automation

Cloud DevOps

Infrastructure as Code · Automated rapid provisioning
Resilient deployments · Elastic Scale up / down

Blockchain
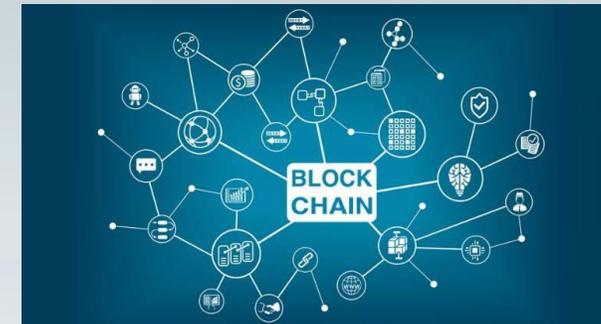
Permissioned distributed ledger · Smart Contracts
Business process compression

Summary

- 9.2 is the Release of Innovation

  - Create your Business Roadmap

  - Upgrade Now! Supported until at least 2028

- Transform your Business with the JDE Digital Platform

  - UX One, Personalization, Extensibility, Orchestration, Notification, Integration

  - Choice and Control on your Journey to the Cloud

- Long Term Roadmap and Vision with Continuous Innovation

  - Continuous Development Delivery and Customer Adoption

  - Automation and Autonomous Processing Vision

ORACLE®