100120: JD Edwards EnterpriseOne Tools and Technology Road Trip to a Modern Technology Platform

Gary Grieshaber, Senior Director Product Strategy, Oracle
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.
IT SPENDING DISTRIBUTION

66% RUN THE BUSINESS
20% GROW THE BUSINESS
14% TRANSFORM THE BUSINESS

WHAT IF YOU COULD CHANGE THE MIX?

Hardware and Software
Engineered to Work Together

CHANGING THE GAME BY SIMPLIFYING I.T.
How do we go about simplifying IT?

1. Identify areas of the product, documentation, training, or support process which are problematic, expensive or complex
   - Working with partners, support, and customer community
   - Quest Technology SIG
   - Industry trends
   - JD Edwards product team innovations

2. Address these areas in product releases and information delivery
   - JD Edwards EnterpriseOne product architecture
   - Oracle product leverage
   - Customer validation
   - Follow up through successful delivery
# Quest Technology SIG Enhancements

<table>
<thead>
<tr>
<th>Tech Sig Request</th>
<th>JDE E1 Solution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Create &quot;Native&quot; Quick Query/Reporting Tool for E1</td>
<td>Apps 9.1: One View Reporting</td>
</tr>
<tr>
<td>Automatically Deliver UBE output</td>
<td>Tools 9.1: Recent Reports, Carousel, improvements to WSJ</td>
</tr>
<tr>
<td>Simplify viewing submitted jobs</td>
<td>Tools 9.1: Recent Reports, Carousel, improvements to WSJ</td>
</tr>
<tr>
<td>Quick and simple access to view output</td>
<td>Tools 9.1: Recent Reports, Carousel, improvements to WSJ</td>
</tr>
<tr>
<td>Query by Example Functionality - Expand Filtering capabilities</td>
<td>Tools 9.1: Enhanced Query</td>
</tr>
<tr>
<td>Ability to sequence / re-arrange favorites</td>
<td>Tools 9.1: Favorites and Drop-Down Menu</td>
</tr>
<tr>
<td>System Monitoring - More Alerts Needed</td>
<td>Tools 9.1: Management Suit for Enterprise Manager</td>
</tr>
<tr>
<td>Server Manager - Improve Performance</td>
<td>Tools 8.98: Maintenance</td>
</tr>
<tr>
<td>Inefficient Query Warning to user</td>
<td>Tools 8.98.2: Query Security</td>
</tr>
</tbody>
</table>
JD Edwards EnterpriseOne Roadmap

Roadmap subject to change without notice. The above is intended for information purposes and may not be incorporated into a contract.
JD Edwards EnterpriseOne Value Proposition
Tools release 9.1 extends JD Edwards leadership for Tier 1 ERP

• Rapid time-to-value
• Low total cost of ownership
• Flexible *configuration and personalization* rather than customization
• Product scalability for company growth
• Popular technology choices
Facts about Tools 9.1
in the first 4 months of availability

- Over 1500 attendees for the launch webinar on Dec 6, 2011
- Over 300 attendees at the launch party in Denver
- Over 1300 downloads of Tools 9.1 from the update center
- Over 200 people through formal classroom training
- Average of over 40,000 hits per month to the Tools 9.1 online documentation pages
- Over 4000 views of the Tools 9.1 documentation overview page on My Oracle Support
- 3 maintenance packs delivered based upon implementation feedback (9.1.0.3 is latest)
# JD Edwards EnterpriseOne Tools 9.1 Compatibility with JD Edwards EnterpriseOne Applications

<table>
<thead>
<tr>
<th>Applications</th>
<th>8.11</th>
<th>8.12</th>
<th>9.0 (including updates 1 &amp; 2)</th>
<th>9.1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tools 8.98 (incl update 1-4)</td>
<td>✓</td>
<td>✓</td>
<td>✓</td>
<td></td>
</tr>
<tr>
<td>Tools 9.1</td>
<td></td>
<td></td>
<td>✓</td>
<td>✓</td>
</tr>
</tbody>
</table>

Excludes:
- HP-UX
- Auto suggest
- One View
- Hover viewer
- Oracle App Server

Roadmap subject to change without notice. The above is intended for information purposes and may not be incorporated into a contract.
Program Agenda

• Discuss some of the key focus areas where we are Simplifying IT for JD Edwards EnterpriseOne customers
  – End User Experience
  – Application delivery through self service or portal
  – Empowering users with end user reporting
  – Systems sizing and architecture
  – Outsourcing to a cloud provider
  – Automated testing

As we go through this presentation, some planned future capabilities will be discussed and flagged with “Planned *”
User Experience

Financial Planning Forecasting and Budgeting

Applications
- Concur Costs Pattern
  - Use the application to compute forecast-growth patterns.
- Assigning Budget
  - Assign various patterns to the appropriate business unit or division.

Reports
- Generate Forecast Based
  - Generate forecast results from a specified budget.
- Apply Forecast to Budget
  - Apply the appropriate forecast to actual expenditures.

ORACLE
JD Edwards EnterpriseOne
A New User Experience for ERP

Web Applications

Reporting and BI

Mobile Applications

Tablets
• Oracle “Style Sheet”
• Hover Popup Data in Interactive Applications
• Auto Suggest
• Hide / Show Grid Column
• Freeze Grid Column
• Inline Visual Assist
• Enhanced Queries for Interactive Applications

• EnterpriseOne Pages
• Carousel Navigation
• User Defined Favorite Applications/Reports from Menu Toolbar
• Quick Access Menu Toolbar
• Improved Usability for Report Output

Learn more Tuesday: 100070 Road Trip to End User Euphoria
Learn more Wednesday: A Developer’s 1st Day with 9.1 - Road Trip to Extensibility (Personalization)
Related Information Application Framework for JD Edwards EnterpriseOne Applications

- Embed interactive web content directly into JDE E1 user interface.
- Enabled per application by system administrator.
- Defined by users at runtime – no custom development required
- Published by end user or system admin

Related Information pane can be minimized or resized as needed by user
DEMONSTRATION

The New JD Edwards EnterpriseOne
User Interface
Tools 9.1 changes the navigation paradigm
Quick access to applications

Recommended Approaches to maximize User Productivity:

- EnterpriseOne Pages
- Favorites
- Carousel
- Flatten Menu hierarchy
Planned product enhancement

Menu breadcrumb

- Menu breadcrumb displayed below menu
- Enable at system or user personalization level
- Breadcrumb reflects where currently visible app was launched
- Navigate directly from any menu level in breadcrumb
Self Service Applications and Portals
Spectrum of Portal Solutions for JD Edwards EnterpriseOne

Choices from lowest cost to most sophisticated

- **E1 HTML Client**
- **Custom E1 App**
- **Portlets in E1 Page** *(Planned)*
- **WebCenter Framework custom portal**
- **WebCenter Suite / Spaces**
- **WebSphere Portal**

*Roadmap subject to change without notice. The above is intended for information purposes and may not be incorporated into a contract.*
Planned product enhancement

JDE E1 portlets in an E1 Page

- Ability to create an EnterpriseOne page which contains portlets and other content
- Simplified approach for internal Portal applications such as employee self service
WebCenter Framework custom portal solution
Create a portal solution using step by step instructions

- WebCenter Framework based solution, does not require WebCenter Suite or Spaces
- Documents all steps for end to end custom portal solution
- No java coding required
- Runtime customization for branding and look & feel
- Integrated LDAP security
- Get your portal up and running from bare metal in less than 1 day

Example of using WebCenter framework for JDE E1

See Fusion Middleware for JD Edwards Best Practice Center on the Oracle Technology Network for How-To document
JDE EnterpriseOne and WebCenter Portal delivers web 2.0 capabilities integrated with JDE E1.

- Aggregate content from various sources
- Intuitive Portal interface

- Include JD Edwards EnterpriseOne content:
  - Portlets
  - Direct links to JDE E1 applications
  - Reports and Analytics

Learn more Tuesday: 100080 Extending JD Edwards with Oracle ADF and Oracle SOA Suite
Customer Example – Real Estate Industry
Using Oracle ADF, WebCenter Suite and SOA to aggregate content and optimize monthly property mgmt close process
End User Reporting
One View Reporting
Powerful End User Reporting without IT Support

- Empower end users to create operational reports
- Leverages Oracle BI Publisher to author interactive end user reports
- IT involvement or knowledge of JDE data schema not required
- Built-in solution supporting all JD Edwards EnterpriseOne modules

Learn more: 100560 One View Reporting - Road Trip to End User Empowerment
One View is in addition to the two other usages of Oracle BI Publisher for JD Edwards EnterpriseOne

- **Operational Reporting**
  - Execute from within JDE E1 like any UBE
  - Leverage existing or new UBEs and business logic
  - Pixel perfect customer facing output
  - Advanced features such as electronic deliver and bursting

- **Interactive Reporting**
  - Dynamic column sorting and filtering
  - Group filters
  - Charts with animation
  - Collapsible Regions

Operational (Embedded) – Check and PO examples

Interactive (BI Pub Standalone) – Report examples
Step 1: Select fields from JDE E1 query application (Runtime Tooling)
Step 2: Use the BI Publisher Layout Editor to Create Report Layout (Runtime Tooling)
One View Reporting Architecture

Step 3: Leverage QBE and Query for Selection Criteria (Runtime Execution)
One View Reporting Architecture

Step 4: Single click to run report
Step 5: Report is run (data passed to BI Publisher via a web service for rendering)
System Design and Sizing for Performance
Highly Scalable Architecture

Client Tier
- Client Workstation
- Firewall

Presentation Tier
- LDAP Server
- External Systems
- Web Server
- Portal Server
- Transaction Server
- Business Services
- Firewall

JDE E1 Tier
- Application Server (J2EE)
- Logic
- Database Server
- Presentation

Business Services
- JDE E1

Database
- Firewall

External Systems
- Firewall
Best Practice and Configuration Whitepapers
Clustered of JD Edwards EnterpriseOne servers and more

Application Server
(J2EE)
(JAS and WSRP)
Oracle Weblogic [Article ID 1291457.1]
IBM WebSphere [Article ID 1291441.1]

Database Server
Oracle Database RAC & Data Guard
Whitepaper [Article ID 1315368.1]
Demonstration [Article ID 1324181.1]

Business Services and Real
time events (RTE) Servers
Real Time Events [Transaction Server Reference Guide]
Business Services [Article ID 1296931.1]

Configuring for Multiple
Time Zones
Time Zone Support [Article ID 1379886.1]
Transforming the Data Center
From Best in Class to Engineered Systems

Best-in-Class Products

Optimized Solutions

Engineered Systems
Transforming the Data Center
From Best in Class to Engineered Systems

Optimized Solution for JD Edwards EnterpriseOne

Oracle SPARC T4-1

Oracle Exadata
Oracle Exalogic

• Outstanding database performance with JDE E1
• Outstanding interactive and batch performance

Product | Certified
--- | ---
SPARC T4 | ✓
Sun Fire x86 | ✓
Oracle Database | ✓
Oracle FMW | ✓
Oracle VM | ✓
Oracle Linux | ✓
Oracle Solaris | ✓

Oracle's High Performance Systems for JD Edwards EnterpriseOne
SPARC T4-1 Optimized Solution for JD Edwards EnterpriseOne

- A single "All-in-One" SPARC T4-1 server
- 2RU datacenter footprint
- 0.27 second response time
- 1,200 interactive web users
- Oracle Solaris, Containers and ZFS…at zero cost
- $29,623 hardware cost

See: www.Oracle.com:
"Oracle Optimized Solution for JD Edwards EnterpriseOne"
# Summary of JD Edwards EnterpriseOne Benchmarks

Demonstrates the scalability of JD Edwards EnterpriseOne

<table>
<thead>
<tr>
<th>System</th>
<th>Users</th>
<th>Response Time</th>
<th>Batch Jobs</th>
<th>Performance Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Oracle Exadata + Exalogic</strong></td>
<td>16,000</td>
<td>0.075 sec</td>
<td>Near zero batch impact</td>
<td>Fastest &quot;sprint&quot; at 0.075 second response time</td>
</tr>
<tr>
<td><strong>Oracle SPARC T4-2</strong></td>
<td>10,000</td>
<td></td>
<td>112 concurrent batch jobs</td>
<td>2.5x faster response over previous SPARC generation</td>
</tr>
<tr>
<td><strong>IBM Power 770</strong></td>
<td>12,000</td>
<td>0.165 sec</td>
<td>61 batch jobs per minute</td>
<td></td>
</tr>
<tr>
<td><strong>Cisco UCS B250 M2</strong></td>
<td>2,000</td>
<td>0.178 sec</td>
<td>&lt; 40% CPU utilization</td>
<td></td>
</tr>
</tbody>
</table>

Learn more  Tuesday:  100640 Optimizing EnterpriseOne System Performance
Deployment Options

On Premise

Private Cloud

Hybrid
Oracle Cloud Strategy: **CHOICE**
Comprehensive Cloud Products and Services for Business and IT

- **BUILD**
  - Build and manage your own cloud using Oracle cloud products

- **MANAGED**
  - Oracle builds and manages a private cloud for you

- **SUBSCRIBE**
  - Consume Oracle as subscription-based services
Oracle Cloud Choice

Range of options for JD Edwards customers

Proven, Extensible Architecture
- Yes
- Yes
- Yes
- Yes
- Yes

Application Management
- Customer
- @Customer Managed
- @Oracle Managed
- @Partner Managed
- @Partner *

Hosting Location
- Customer
- Customer
- Oracle
- Partner
- Partner *

Software License
- Customer
- Customer
- Customer
- Customer
- Partner *

Change Control
- Customer
- Customer
- Customer
- Customer
- Partner *
JD Edwards in the Cloud

• JD Edwards Enterprise One is built to:
  – Take advantage of full Oracle Fusion Middleware stack providing enterprise class security, scalability, monitoring and management
  – Leverage Oracle integrated hardware and virtualization for optimum performance
  – Leverage existing investments in MS Windows or IBM infrastructure
  – Leverage JD Edwards EnterpriseOne rapid time to value and low cost of ownership for efficient cloud offering

• Future
  – Platform-independent Server Manager and Deployment Server for more versatile virtualization (e.g. eliminate MS Windows dependency)
  – Automate impact analysis of customizations
  – Improvements to rapid deployment of Enterprise One apps
  – Automation and scheduling of package builds and refreshes

Roadmap subject to change without notice. The above is intended for information purposes and may not be incorporated into a contract.
Automated Testing

Functional Testing

Load and Performance Testing

Test Process Management
Oracle Application Testing Suite.

Functional Testing
- Automate transactions for the Web
- Create automated regression tests
- Reuse functional tests for load testing

Load and Performance Testing
- Create realistic load scenarios
- Scale to 1000’s of concurrent users
- Isolate and remove bottlenecks

Test Process Management
- Centralized Web-based console
- Create reports
- Document and track defects

Using OATS with JDE whitepaper: [https://support.oracle.com/CSP/main/article?cmd=show&tipoe=NOT&doctype=WHITE%20PAPER&id=1389067.1](https://support.oracle.com/CSP/main/article?cmd=show&tipoe=NOT&doctype=WHITE%20PAPER&id=1389067.1)
Two approaches to automated testing

Record and Playback

- **PROS**
  - Easy to create with Fast ROI
  - Business analyst skill set

- **CONS**
  - Re-record based upon changes to system

Engineered Test development

- **PROS**
  - Scripts are less likely to break upon changes to the system (config, data, ESUs)
  - Scripts are reusable across release lines

- **CONS**
  - Additional skill set required (OpenScript, java)

OATS based functional sample scripts for JD Edwards EnterpriseOne

Sample automated testing scripts which follow the Engineered Test development approach.

- 12 Sample scripts for JDE E1 9.1
- Application versions setup to match the scripts
- JDE E1 Function library
  - Abstracts screen location of buttons, fields, etc…
  - Insulates from HTML changes (e.g., new tools release)
- Sample database
- Documentation – engineered scripts methodology, how to install, setup and refresh


Roadmap subject to change without notice. The above is intended for information purposes and may not be incorporated into a contract.
Thank You