

Traditional Development or Low-Code/No-Code, that is the Question

Session ID: P-049161

Agenda

- About the Presenter and Syntax
- Software Development Evolution for JDE
- Code and Low-Code / No-Code Working Together
- Business Cases and Solutions, quick glance
- Out-of-the-box Content Available
- Conclusions
- Q&A

Meet the Presenter



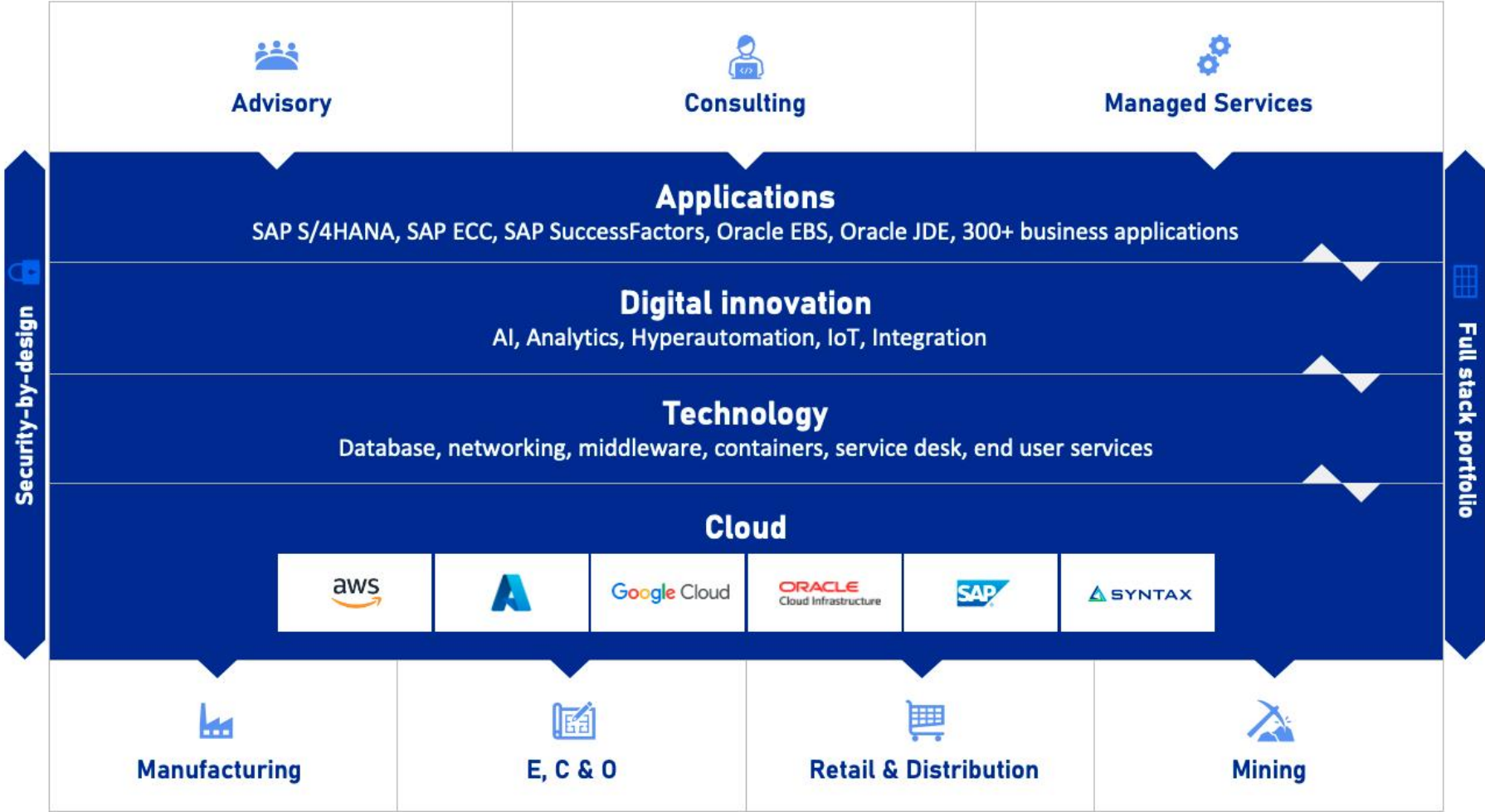
Jerry Salazar

Principal Consultant and Project Manager
Syntax

- Over 25 years of JD Edwards Experience, Functional, Technical and Project Management
 - JD Edwards Implementations and Upgrades across all Modules
 - Orchestrator Training
 - Presales Support
 - Started JDE career as Developer, back in 1992
-

Our profile

A global provider of mission-critical application services in the cloud



26

Offices

15

Countries

52+

Years of experience and leadership

2,800

Technology and business professionals

4



Major languages in which business is conducted at scale

900+

Mid-market and large enterprise customers

Oracle-Certified Capabilities

Oracle Partner Network

15K+

Managed Systems

950+

Employee Oracle Certifications

350+

Successful Cloud Migrations

Infrastructure

ORACLE | Sell Partner

Expertise in
Oracle Cloud Platform
in North America

ORACLE | Service Partner

Expertise in
Cloud Service Solution
OCI Migration
in NAMER-North America

Platform

ORACLE | Service Partner

Expertise in
CSPE: Oracle Cloud Platform -
Oracle Database to Oracle Cloud
in North America

ORACLE | Service Partner

Expertise in
CSPE: Oracle Cloud Platform -
Oracle Cloud Platform
Data Management
in North America

ORACLE | Service Partner

Expertise in
Oracle Cloud Platform -
Oracle Cloud Platform Integration
in North America

Packaged Applications

ORACLE | Service Partner

Expertise in
JD Edwards Applications
to Oracle Cloud
in North America

ORACLE | Service Partner

Expertise in
Oracle E-Business Suite
Applications to Oracle Cloud
in North America

Fusion Applications

ORACLE | Sell Partner

Expertise in
Oracle ERP Cloud
in North America

ORACLE | Sell Partner

Expertise in
Oracle SCM Cloud
in North America



Syntax cloud capabilities

Syntax expertise transcends multiple services across **multiple cloud environments**. Our approach ensures that your business has choice to shift as your business evolves and embraces the **hybrid cloud** paradigm. Ensuring digital transformation of over **900** organizations.

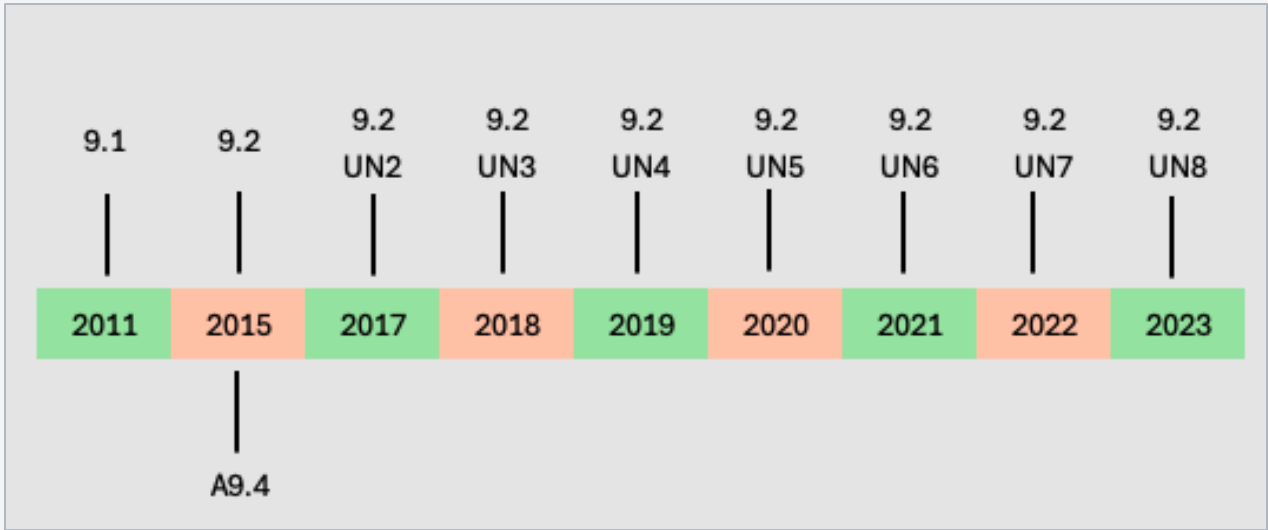
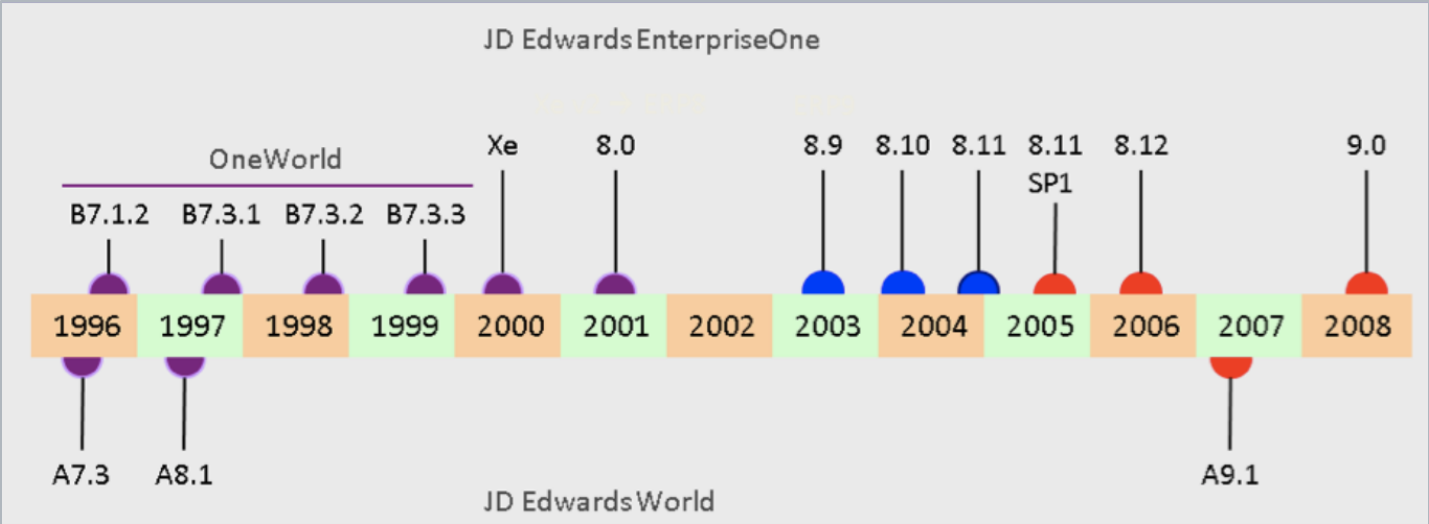
Generative AI	Data lakes & Analytics	Internet of Things (IoT)	End User Services
Security & Compliance	Governance	FinOps	Disaster Recovery
Compute	Storage	Networking	Database



Software Development Evolution for JDE

Quick trip down memory lane
and the latest!

World and EnterpriseOne



World Software

- Computer Aided Software Engineering (CASE)
 - Development started in 1984 (native S/34 and S/36 tools)
 - First called CLONE
 - First program generation was in April, 1985
 - Rewrite of all systems (World Systems) done through CLONE I & II
 - Became known as the KBG (Knowledge Based Generator) in 1991
 - Became known as the Program Generator in 1992
 - SVR, RPG, CLP, SEU (Source Entry Utility)

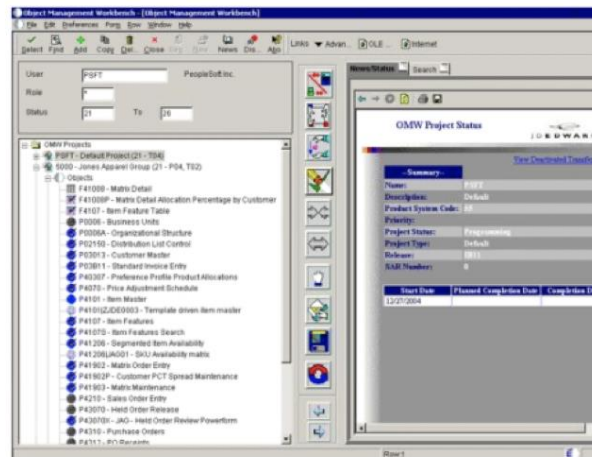
A screenshot of the JD Edwards World Address Book menu. The title bar shows '601 JD Edwards World JD ED'. The menu is divided into 'Product Groups' and 'Address Book'. Under 'Address Book', there are two columns of options: 'DAILY OPERATIONS' and 'PERIODIC OPERATIONS'. The 'DAILY OPERATIONS' column includes '2. Name Search', '3. Address Book Revisions', and '5. CIF Index'. The 'PERIODIC OPERATIONS' column includes '14. Auxiliary Address Book Info' and '15. Reports and Labels'. At the bottom, there is a status bar with the date 'Wed, Jan 10, 2007', time '8:28:28am', and version information 'A9.1 QA Test', 'Copyright © 2006, Oracle', and 'AC2901443 QPADEV0141'.

A screenshot of the Oracle JD Edwards World SEU (Source Entry Utility) window. The title bar shows 'Columns . . . : 1 121'. The window has a menu bar with 'Tools' and 'Help'. Below the menu bar is a toolbar with icons for 'Field Sensitive Help', 'Display Error Message', and 'Display Functions'. The main area displays a list of columns with their descriptions. The columns are numbered 0001 through 0019. The descriptions include 'Beginning of data', 'Program', 'Description', 'Model Interactive Execution Program', 'Program Revision Log', 'Program', 'Date', 'Programmer', 'Description', 'SAR #', 'PGM', 'Define program file(s) and variable(s)', 'DCL', and 'TYPE(*CHAR) LEN(10)'. At the bottom, there is a status bar with the text '(C) COPYRIGHT IBM CORP. 1981, 2005.' and '2-9 SR MW KB KS IM II JDED'.

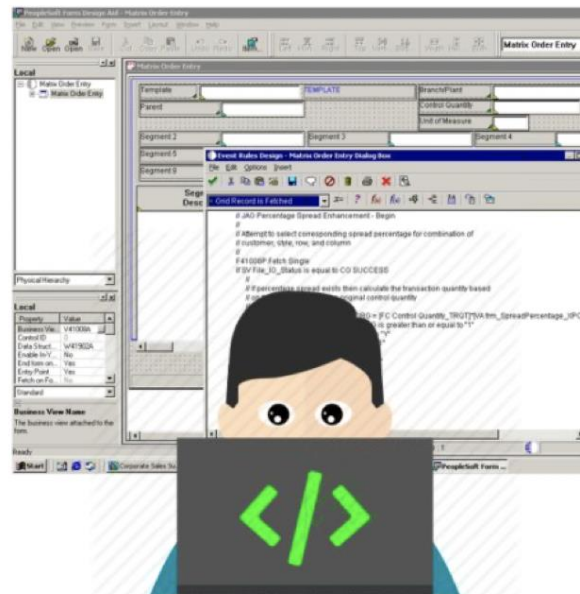
EnterpriseOne

- EnterpriseOne Development Tools
 - Available since mid-90's
 - Graphical User Interface
 - OMW, FDA, RDA, BFSN, Workflow, Event Rules

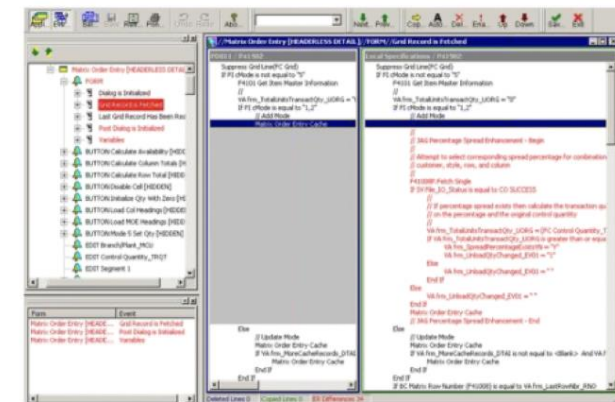
Object Management Workbench



Form Design Aid



Event Rule Comparison



EnterpriseOne by the Numbers

➤ For the **Application Layer**, since the release of 9.2 October 2015

- 50+ Updates/Releases
- 400+ Enhancements/Fixes using traditional coding
- FDA, RDA, BFSN, etc.

➤ From Keynote Session (yesterday)

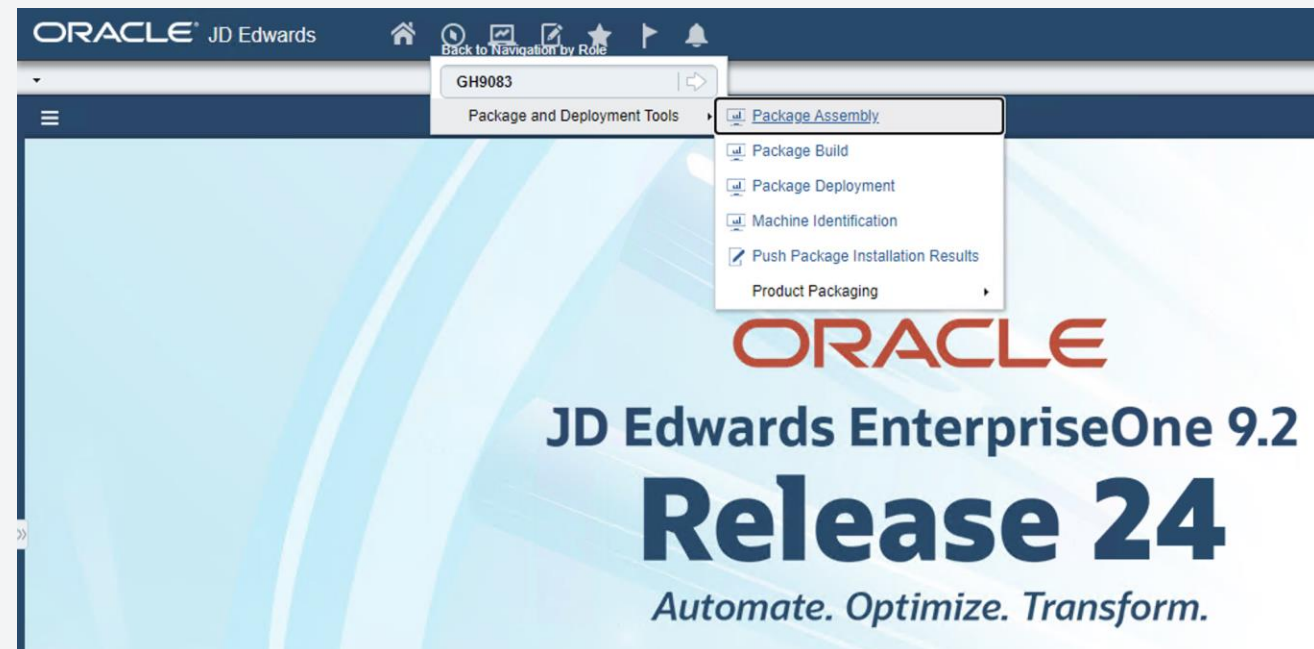
- 110+ added just las year

Release	Release Date	Features
9.X	Planned	5
9.2 Update 8	18-Dec-23	1
Release 24	28-Nov-23	37
9.2 Update 7	23-Nov-22	1
Release 23	20-Oct-22	48
9.2 Update 6	17-Nov-21	1
Release 22	11-Oct-21	59
9.2 (As of June 2021)	29-Jun-21	35
9.2 Update 5	1-Dec-20	110
9.2 Update 4	11-Dec-19	53
9.2 Update 3	8-Nov-18	43
9.2 Update 2	9-Nov-17	1
9.2 (as of October 2017)	13-Oct-17	40
9.2 (as of November 2016)	14-Nov-16	30
9.2	6-Oct-15	212

EnterpriseOne

➤ Package Deployment from Web

- With Tools Release 9.2.5 (Nov'20), the key system administration applications for package assembly, package build, and package deployment can be run through the EnterpriseOne web interface.
 - Package Assembly – P9601W
 - Package Build – P9621W
 - Package Deployment – P9631W

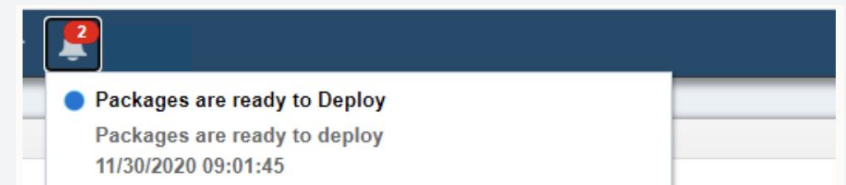
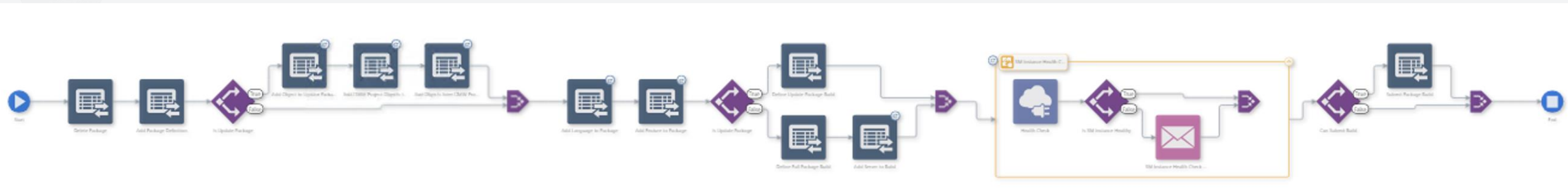
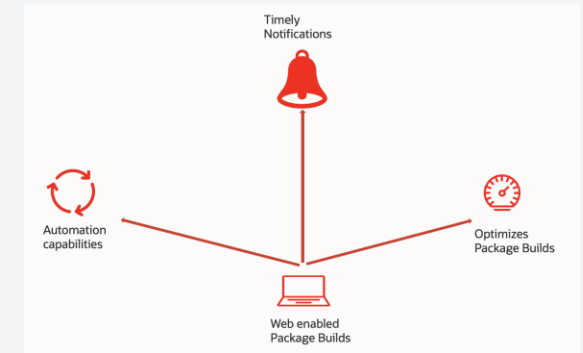


EnterpriseOne

► Package Deployment from Web

► Benefits:

- ✓ Lowers TCO for system administrations tasks
- ✓ Saves time and effort by enabling automation via Orchestrations for packages
- ✓ Enabling notifications for packages builds
- ✓ Speeds up testing and bug fixing
- ✓ Orchestration: Automated Package Build (BUG 32265257)



EnterpriseOne

- EnterpriseOne Development Tools – OMWeb (P98220W)
 - Available since TR 9.2
 - Ability to manage both UDO and non-UDO Projects and Objects
 - Ability to manage Users and Roles
 - Using same Transfer Activity Rules in OCM (P98230)
 - TR 9.2.3, ability to see UDO dependencies for Watchlist, CAFE1 and Composed Pages
 - TR 9.2.5.3, ability to see dependencies for ORCH components
 - TR 9.2.5, ability to promote non-UDO projects
 - TR 9.2.7 (Oct'22), ability to:
 - Combine UDO and non-UDO objects in **one project**, simplifying the project promotion
 - Add/Delete Projects, Add/Delete Objects to/from Projects
 - Remove Check-out
 - Move/Copy Objects between Projects

EnterpriseOne

EnterpriseOne Development Tools – OMWeb (P98220W)

- TR 9.2.7 (Oct'22), ability to create/modify: DSTR
- TR 9.2.8 (Nov'23), ability to create/modify: BSVW

Business View Design: V570116A - Join F0101 & F0116 (All Columns)

Personal Form: (No Personalization) Layout: (No Layout)

Table/Column Selection

Distinct ☐ Join Mode ☒ Union Mode ☐ Union All Mode ☐

Available Tables

Select Table	Table Name	Table Description	Product Code
<input type="checkbox"/>	F0101	Address #	
<input type="checkbox"/>	F0116	Address #, Date Eff	

Selected Table

Table Name	Primary	Index Name	Index
F0101	<input checked="" type="radio"/>	Address #	A
F0116	<input type="radio"/>	Address #, Date Eff	A

Selected Columns

Select	Key	Data Item	Alias	Data Type	Description
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	AddressNumber	ANB	Numeric	Address Number
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	AlternateAddressKey	ALKY	String	Alternate Address Key
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	TaxId	TAX	String	Tax Identification Number
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	NameAlpha	ALPH	String	Name - Alpha
<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	DescripCompressed	DC	String	Description - Compressed

Table Joins

Left Table	Join Type	Right Table
F0101	Simple Join (=)	F0116

Column Joins

Left Column	Join Operator	Right Column	Left Description	Right Description
ANB	Equal (=)	ANB	Address Number	Address Number
ALKY	Equal (=)	ALKY	Alternate Address Key	Alternate Address Key
TAX	Equal (=)	TAX	Tax Identification Number	Tax Identification Number
ALPH	Equal (=)	ALPH	Name - Alpha	Name - Alpha
DC	Equal (=)	DC	Description - Compressed	Description - Compressed

BSVW

Data Structure Revisions

Personal Form: (No Personalization) Layout: (No Layout)

Data Structure: D570001A Address Data Structure

Template Type: Function Data Structure

Structure Members

Structure Member Name	Required	Input/Output	Data Item	Alias	Description
mnAddressNumber	<input checked="" type="checkbox"/>	→	AddressNumber	ANB	Address Number
szNameAlpha	<input type="checkbox"/>	←	NameAlpha	ALPH	Name - Alpha

Data Items

Alias	Data Item	Description	Product Code
ALPH	NameAlpha	Name - Alpha	00

DSTR

EnterpriseOne

➤ EnterpriseOne Development Tools – OMWeb (P98220W) - Promote

- With Tools Release 9.2.8 (Nov'23), ability to promote a project - The Promote feature is the same as running a package build and deploy and the objects become available to all users running on the web immediately. You can promote the following object types:

- Applications (APPL)
- Reports (UBE)
- Report Versions (UBEVERS)
- Business View (BSVW)
- Data Structures (DSTR)
- Processing Options (DSTR)
- Media Objects (GT)

The screenshot displays the 'Object Management Workbench - Web' interface. A context menu is open over a table of project records, with the 'Promote' option highlighted by a red rectangle. The table has columns for 'Status', 'Status Description', 'Type', 'Type Description', 'Project Severity', and 'Project Seve Description'. Below the main table, there is a section for 'Project Objects' with tabs for 'Token Information' and 'Project Members'. This section includes a table with columns for 'Object Actions', 'Token Actions', 'Object Name', 'Object Description', 'Object Type', 'Object Type Description', and 'Release'.

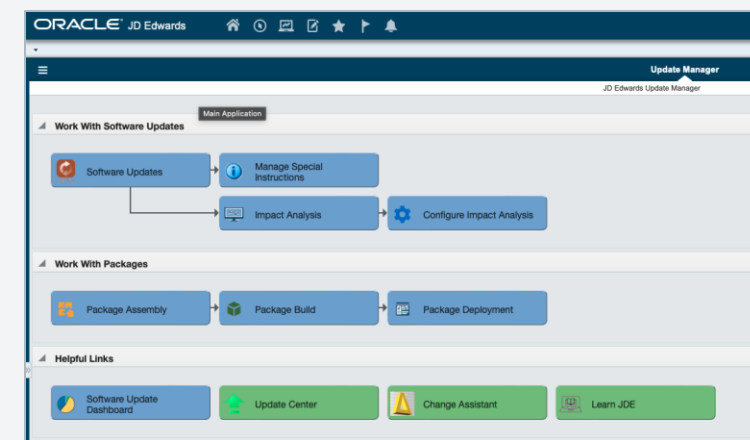
Status	Status Description	Type	Type Description	Project Severity	Project Seve Description	
23 - Demo Project	21	Programming	02	Enhancement	11	Enhancement
23 - Demo Project	21	Programming	02	Enhancement	11	Enhancement
23 - Demo Project	21	Programming	02	Enhancement	11	Enhancement
21	Programming	02	Enhancement	11	Enhancement	
21	Programming	02	Enhancement	11	Enhancement	
21	Programming	02	Enhancement	11	Enhancement	

Object Actions	Token Actions	Object Name	Object Description	Object Type	Object Type Description	Release
		P570116	Address Book Addresses Search	APPL	OL Application	E920
		V570116A	Join F0101/F0116	BSVW	OL Business View	E920
		D570101A	Address Data Structure	DSTR	OL Data Structure	E920

EnterpriseOne

► EnterpriseOne Software Updates

With Tools Release 9.2.8 (Release 24) the following features were introduced:



Applications Update (UN) Support Through Web Client

- Customers are now able to apply the yearly cumulative Application Software Update (ASU) through the Software Updates application when run over the **Web Client**. By providing the new multi-platform deliverable that comprises the UN, customers can now install, analyze, and apply the update through the web interface and automate through orchestration.

Batch Update Through Web Client

- The JD Edwards Update Manager now enables administrators to apply multiple updates in "batch" mode through the **EnterpriseOne HTML Client** version of the Software Updates application instead of utilizing the Windows Deployment Server. By applying updates in "batch" mode, EnterpriseOne administrators can submit multiple updates at a time, and enable customers to stay code current.

Impact Analysis Dashboard

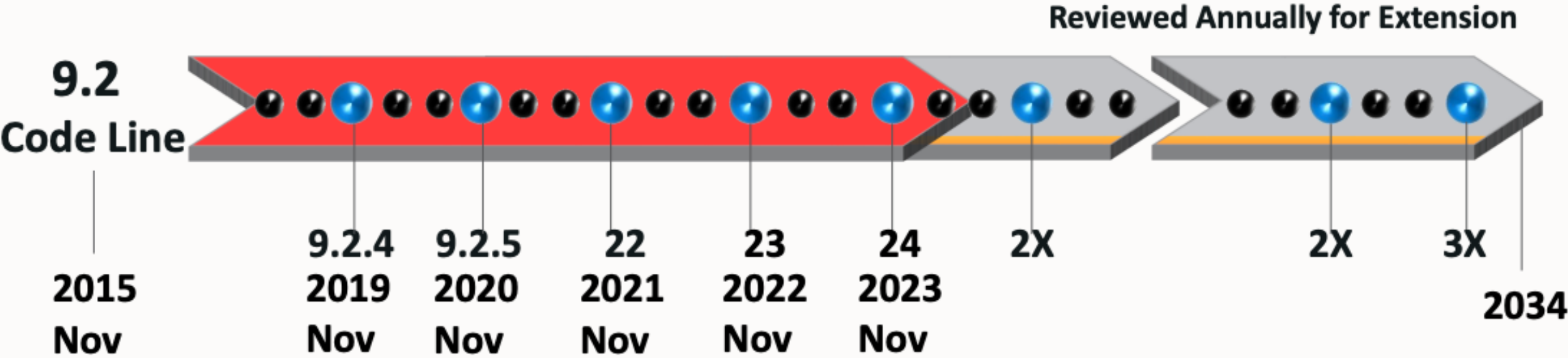
- The Impact Analysis Dashboard provides customers a comprehensive interface to visualize the objects and business processes that are updated when a patch is applied to their system. The Impact Analysis Dashboard combines discrete data sets that outline provided object manifest list with information from the customer.

Webify UDC & Glossary Compare/Merge Utility

- Further simplifying the application update process, a web utility is embedded as part of the special instruction evaluation application to enable customers to compare existing UDC value and Data Dictionary Glossary text vs the proposed changes included in the update. The **Web Client** utility automatically uploads the special instruction metadata into the system for initial evaluation and then visual comparison and tracking of each change. With the utility being web client based, it opens the automatic operation of the special instruction update.

EnterpriseOne Product Roadmap

Planned



- Feature Packs
- Updates

As of December 2023

EnterpriseOne Product Roadmap

Planned

Planned

Research

Applications

- ✓ Enterprise Automation: Requisition to Receipt
- ✓ Enterprise Automation: Quote to Order:
- Capture and Store Environmental data for Stationary & Mobile Combustion
- Two-way voucher match automation
- Ability to generate alphanumeric account ID
- Production Lot/Serial Number and Location Automation
- Simplify Bid Process
- Print Held Orders

Digital Platform

- My Workflow Monitor
- Authentication and Authorization for OCI Services
- Rename Inputs to Orchestrations
- Stateful Orchestrations
- Enterprise Process Modeler
- Process Model Generator
- Workflow Monitor Process View
- My Tasks
- Orchestration Variable for Maximum Page Size

System Administration

- Improved Automated Serialized Object Generation
- Enhanced Query Manager support for column comparison
- JDE Update Manager: UDO Deployment
- UDO Extensibility Guide
- Server Manager APIs
- Optimized Full Package Build Performance
- JDE Update Manager: Web Planner
- UDO Tracking

Applications

- Time Sensitive Pricing
- Self Service Interface
- Embedded Analytics
- Digital Assistant Skills
- LPN Auto-Replenishment
- Expand delivered workflows
- Order Mgmt Sales Advisor
- P2P Automation
- Asset Impairment
- Reverse Ship Confirm
- Interactive Visual Components
- Enterprise Automation:
 - Fulfillment Orchestration to Invoice
 - Manufacturing
 - Customer Sentiment – Preventive Maintenance

Applications

- Capture and Store Environmental data for Purchased Energy - Scope 2
- Enable Validation of Full vs Partial License Plates
- Exclude scrap when determining operation status
- Include closed Jobs in Profit Rec
- PO Approval Delegation
- Work Order Over-Issues Management Option
- Multi-year Contract Amortization
- Standard AR tax functionality in cash call invoice
- Lot Master History

Digital Platform

- Automation for Batch & Queue Management
- Batch on the Glass
- Industry-standard Workflow (BPMN 2.0)
- Jet Development Framework
- Data Structure Discovery & Selection
- Alternative UX:
 - Digital Assistants
 - Embedded Web Applications
- Enterprise Automation Workbench
- Autocreate Workflow
- Calculated Watchlists
- Conditional Launch of Orchestrations
- Automated Testing Framework

System Administration

- Patch Recommendations
- Autonomous Linux
- Batch Queue Manager
- JDE Update Manager: Application Package Metadata
- Next Gen Cloud Management and Monitoring
- Automatic recognition of errors and anomalies
- Consolidated system administration
- 2 Step Authentication
- Dev Client Simplification - Centralized Web Tier
- UDO Extensibility: Compare Tool
- Plug-in for OCI Stack Monitoring

Code, low-code or combination!

Orchestrator



2021-Q4

Release 22 (9.2.6.0)

- Logic Extensions
- Launch Orchestrations from the E1 Web Client (Composed Pages)
- Pop-up Messages for Orchestrations
- Files as Orchestration Input and Output
- Orchestrator Support for Media Objects
- Attachments to Messages: Media Objects
- Workflow Studio
- Removal of Groovy from the E1 package (optional installation)
- Return Associated Descriptions for Data Requests
- AIS REST APIs to Discover Objects and Execute Business Functions
- Current Environment as a System Value
- Bypass Warnings During Process Recording
- Service-Only User

2022-Q1, Q2

Release 22 (9.2.6.2)

- Allow Default Values for Array Inputs to an Orchestration
- Option to Exclude the Summary Row from a Form Request Response
- Manage File Output from REST Responses
- API to Manage Files in the AIS Root Temp Directory
- Assertion Definitions for All Rows in a Grid

Release 22 (9.2.6.3)

- Rich Formatting of Messages
- Logic Extensions: Business Function Support
- Logic Extensions Diagnostics
- Accept Null as a Criteria for a Rule
- Manage Report Output in Orchestrations

2022-Q3

Release 22 (9.2.6.4)

- Free-form Input for Orchestrations Launched from Form Extensions
- Array Inputs for Orchestrations Launched from an EnterpriseOne Composed Page
- Start a Workflow Process from a Logic Extension
- Import and Export Workflows from Orchestrator Studio
- Create and Delete Workflows from Orchestrator Studio
- Improved Layout for Workflows
- Environment Properties for Orchestrations
- Outbound and Third-party Cross-references for Orchestrations
- Orchestrator Multipart REST Connector without File Attachments

2022-Q4

Release 23 (9.2.7.0)

- Complex Queries to the EnterpriseOne Database
- File Selector for Orchestrations Launched from an E1 Page
- Logic Extensions: Aggregation Support
- Data Set Processing for Logic Extensions
- Logic Extensions: Call Directly from a Form Extension
- Call an Orchestration from a Workflow
- Access to AIS APIs from e1pagehelper

Roadmap

Future

- Enterprise Process Intelligence
- Workflow Monitor
- User-editable OpenAPI Document
- Record all orchestration events
- Map Inputs from a CSV File
- Enhancements to Media Object APIs
- Client-only Logic Extensions
- Rich Formatting of Workflow Messages
- Workflow Due Dates
- Workflow Task Response
- EnterpriseOne Pages: Rename Inputs to Orchestrations
- EnterpriseOne Pages: Static Text and Images
- Conditional Launch of Orchestrations on Form Extensions
- Customer-requested enhancements

Code and Low-Code/No-Code Working Together!

The Dilemma (Industry Standards)

- The dilemma between traditional coding and low-code development platforms is a significant topic in today's software development landscape.

Traditional Coding

➤ Benefits

- **Flexibility:** High level of customization and control
- **Performance:** Optimized code for better performance
- **Scalability:** Easier to scale complex applications
- **Security:** Greater control over security measures

➤ Challenges

- **Time-Consuming:** Longer development cycles
- **Resource-Intensive:** Requires highly skilled developers
- **Maintenance:** Ongoing maintenance and updates can be complex (rework/retrofitting), barrier for continuous adoption
- **Cost:** Higher development costs

Low-Code

➤ Benefits

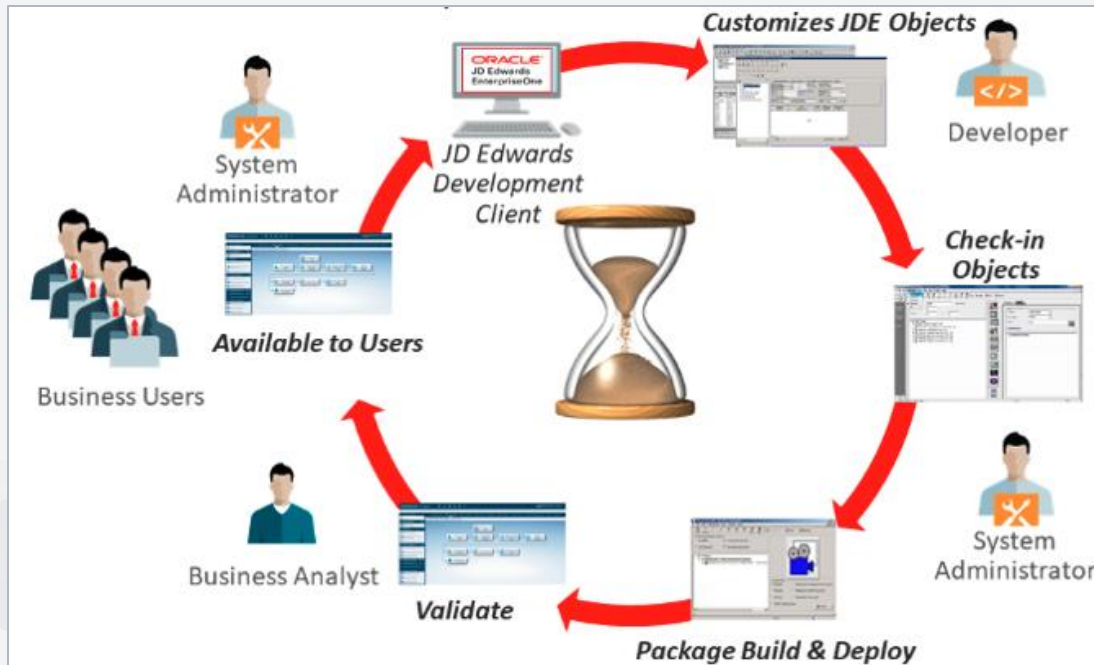
- **Speed:** Rapid application development and deployment
Immediately solving business problems
- **Accessibility:** Enables non-developers to build solutions
- **Cost-Effective:** Reduces the need for extensive coding expertise
- **Agility:** Easy to adapt to changing business requirements, enabling continuous adoption

➤ Challenges

- **Limited Flexibility:** Less control over customization
- **Performance:** May not be suitable for high-performance applications or high-data volumes
- **Scalability:** Challenges in scaling complex applications
- **Security:** Potential security risks due to less control

The Dilemma (EnterpriseOne)

Traditional








- ❖ Resource Intensive and Expensive
- ❖ Delayed time to Market
- ❖ Rework / Retrofitting
- ❖ Barrier to continuous adoption

Modern, low-code



- ❖ Faster and Inexpensive
- ❖ Solving business problems immediately
- ❖ Enables continuous adoption
- ❖ Enables staying code-current

Ways to Tailor EnterpriseOne

 <p>Configuration</p> <p>Setup EnterpriseOne to meet the needs of your business processes</p> <ul style="list-style-type: none">- Processing Options- Activity Rules	 <p>Personalization</p> <p>UI Changes to improve the User Experience and Productivity</p> <ul style="list-style-type: none">- Form Extension- CafeOne	 <p>UX One</p> <p>Intuitive, efficient and effective user experience</p> <ul style="list-style-type: none">- Watchlist- Data Graphs- Springboards	 <p>Extensibility</p> <p>New and improved functional flows that extend business logic</p> <ul style="list-style-type: none">- Orchestrator, LEX- Workflow Z Tables- Web Services	 <p>Customization</p> <p>Technical changes to the system to solve company-specific business requirements</p> <ul style="list-style-type: none">- RDA, FDA
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Form Extensions⁽ⁿ⁾

- Available since TR 9.2.2.4 (Apr'18)
- This feature enables citizen developers to dynamically extend an EnterpriseOne form without customizations (Doc ID 2384606.1)
- Form Extensions are the entry-point for real-time execution of Orchestrations, Logic Extension and Notifications, triggered by buttons or Form Event Rules

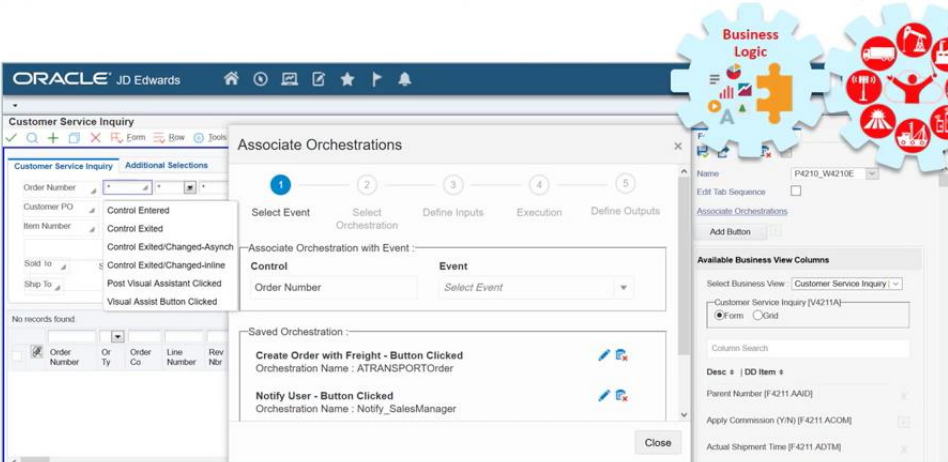
Form Types	Features	TR & Above	Apps Version		
			9.0	9.1	9.2
<ul style="list-style-type: none"> Find/Browse Search and Select Parent/Child Browse 	<ul style="list-style-type: none"> Ability to Add, Remove, Resize and Reposition Business View Columns 	9.2.2.4	●	●	●
<ul style="list-style-type: none"> Fix/Inspect Header Detail Headerless Detail Power Browse 	<ul style="list-style-type: none"> Ability to add Filtering Criteria for new columns (inquiry only forms) Ability to update Tab Sequencing Ability to Add fields for Add/Update Mode forms 	9.2.3.0		●	●
<ul style="list-style-type: none"> All Forms (as applicable) 	<ul style="list-style-type: none"> Ability to add available (unused) table columns associated with a business view or table as additional form controls Ability to associate orchestrations with events on forms Ability to Hide/Unhide Form Controls and Rename Labels 	9.2.3.3		●	●
	<ul style="list-style-type: none"> Ability to map the returns values from an Orchestration to form controls 	9.2.3.4		●	●
	<ul style="list-style-type: none"> Ability to Repositioning Form Controls Marked as Required Ability to create new Form and Row Exits 	9.2.4.4		●	●
	<ul style="list-style-type: none"> Ability to Associate Description with Edit Control on Form 	9.2.5.3			●

Form Extensions⁽ⁿ⁾

Form Types	Features	TR & Above	Apps Version		
			9.0	9.1	9.2
<ul style="list-style-type: none"> All Forms (as applicable) 	<ul style="list-style-type: none"> Ability to associate description with a grid column Ability to enable a grid column on Edit forms Ability to set Grid Record count to be displayed 	9.2.6			●
	<ul style="list-style-type: none"> Ability to Add Free-Form Input for Orchestrations Launched from Form Extensions 	9.2.6.4			●
	<ul style="list-style-type: none"> Ability to call Logic Extensions 	9.2.7			●
	<ul style="list-style-type: none"> Ability to pass the Application Version from a Form Extension to an Orchestration or Logic Extension Ability to Enable or Disable Fields in Form Extensions Ability to select a file when the orchestration requires file input 	9.2.7.3			●

Calling Orchestrations from Forms

- Available since TR 9.2.3.3 (Apr'19)
- This feature enables citizen developers to extend and augment base EnterpriseOne applications with the power of orchestrations for process automation and integration with third-party products.
- With TR 9.2.4 (Nov'19) ability to:
 - Associate Orchestrations with Grid Events
 - Map Orchestration output to grid rows and columns
 - Iterate Orchestration over rows in update grid
- With TR 9.2.7 (Oct'22) ability to:
 - Call Logic Extensions
- With TR 9.2.7.3 (Apr'23) ability to:
 - Select a file when Orchestration requires it



Business Logic

- ☐ Launch orchestration from form context
- ☐ Launch orchestrations in real time
- ☐ Meet your business logic requirements
- ☐ On the glass
- ☐ Without customization

Support in Form Extension **Associate Orchestrations with Form/Control Events** **Contextually Map Orchestration Parameters**

CafeOne

- Available since TR 9.1.3 (Apr'13)
- This framework that enables users to work with content from multiple sources within a single browser window, dynamically extending an EnterpriseOne form without customizations (Doc ID 2260097.2)

Features	TR & Above	Apps Version		
		9.0	9.1	9.2
<ul style="list-style-type: none"> Ability to display external application content within the context of an E1 interactive application: URLs and BI Reports 	9.1.3	●	●	
<ul style="list-style-type: none"> Ability to insert E1 application content within the context of another E1 interactive application 	9.1.4	●	●	
<ul style="list-style-type: none"> All above available 	9.2	●	●	●

The screenshot displays the Oracle JD Edwards CafeOne interface. It features a central workspace with four integrated application windows. The top-left window, 'Work With Item Branch', shows a list of items with columns for Item Number, Description, and Search Text. The top-right window, 'Work With Item Availability', displays a table with columns for Item Number, Location, On-hand, and Security. The bottom-left window, 'Work With Item Ledger', shows a table with columns for Document Number, Document Date, and Quantity. The bottom-right window, 'Work With Supply and Demand', displays a bar chart showing supply and demand over time. The interface includes a top navigation bar with the Oracle JD Edwards logo and a search bar.

The screenshot displays the Oracle JD Edwards CafeOne interface for an 'Address Book Revision' form. The form includes fields for Address Number, Address Line 1, Address Line 2, Address Line 3, and Address Line 4. It also includes a map view showing the location of the address. The interface includes a top navigation bar with the Oracle JD Edwards logo and a search bar.

B98ORCH

► Launching Orchestrations from EnterpriseOne Event Rules (Doc ID 2474665.1)

- Available starting TR 9.2.3 (Nov'18)
- New business function which can be used to call Orchestrations or Notifications from EnterpriseOne applications

► Known Issues

- Lack of error notification when B98ORCH is called using the wrong Orchestration name or, if the Orchestration name is correct but a parameter name is incorrect

Business Functions

Function Name : CallOrchestrationNotification
Function Description : Call Orchestration or Notification
Source Module : B98ORCH Data Structure : D98ORCH

Transfer Filtering
☐ Do Filtering

Search Here

Available Objects

Special Values
<Literal>
<Blank>
Business View Column
BC Address Line 1 (F0116)(ADD1)
BC Address Line 2 (F0116)(ADD2)
BC Address Line 3 (F0116)(ADD3)
BC Address Line 4 (F0116)(ADD4)
BC Bulk Mailing Center (Future) (F0116)(BKI)
BC Business Unit (F0101)(MCU)
BC Carrier Route (Future) (F0116)(CRTE)
BC Category Code - Address Book 01 (F010)
BC Category Code - Address Book 02 (F010)
BC Category Code - Address Book 03 (F010)
BC Category Code - Address Book 04 (F010)
BC Category Code - Address Book 05 (F010)
BC Category Code - Address Book 06 (F010)
BC Category Code - Address Book 07 (F010)
BC Category Code - Address Book 08 (F010)
BC Category Code - Address Book 09 (F010)
BC Category Code - Address Book 10 (F010)
BC Category Code - Address Book 11 (F010)
BC Category Code - Address Book 12 (F010)
BC Category Code - Address Book 13 (F010)
BC Category Code - Address Book 14 (F010)
BC Category Code - Address Book 15 (F010)

Data Structure

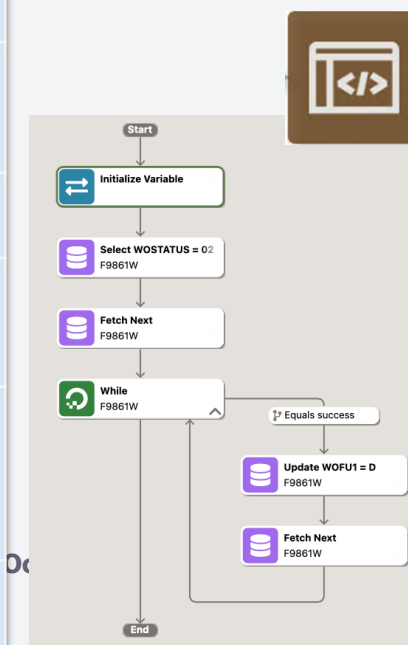
Value	Dir	Data Item
<NOT Assigned>	→	szName_FUNCNM
<NOT Assigned>	→	szType_WOTYP
<NOT Assigned>	→	szInputType_ACTYP
<NOT Assigned>	→	szOutputType_ACTYP
<NOT Assigned>	→	cWaitForResponse_ER066
<NOT Assigned>	←	cError_EV01
<NOT Assigned>	→	szInputString_REPTXT
<NOT Assigned>	→	szName1_ENTRNM
<NOT Assigned>	→	szValue1_TSTRING
<NOT Assigned>	→	szName2_ENTRNM
<NOT Assigned>	→	szValue2_TSTRING
<NOT Assigned>	→	szName3_ENTRNM
<NOT Assigned>	→	szValue3_TSTRING
<NOT Assigned>	→	szName4_ENTRNM
<NOT Assigned>	→	szValue4_TSTRING
<NOT Assigned>	→	szName5_ENTRNM
<NOT Assigned>	→	szValue5_TSTRING

Business Function Notes Structure Notes Parameter Notes ☒ OK ☐ Cancel

Logic Extensions

- Available with TR 9.2.6+(Oct'21)
- This logic extensions feature further expands the capabilities of the extensibility framework by allowing you to use the familiar syntax of the JD Edwards Event Rules language to create custom logic without the need for a development client and without the need to build and deploy a package.

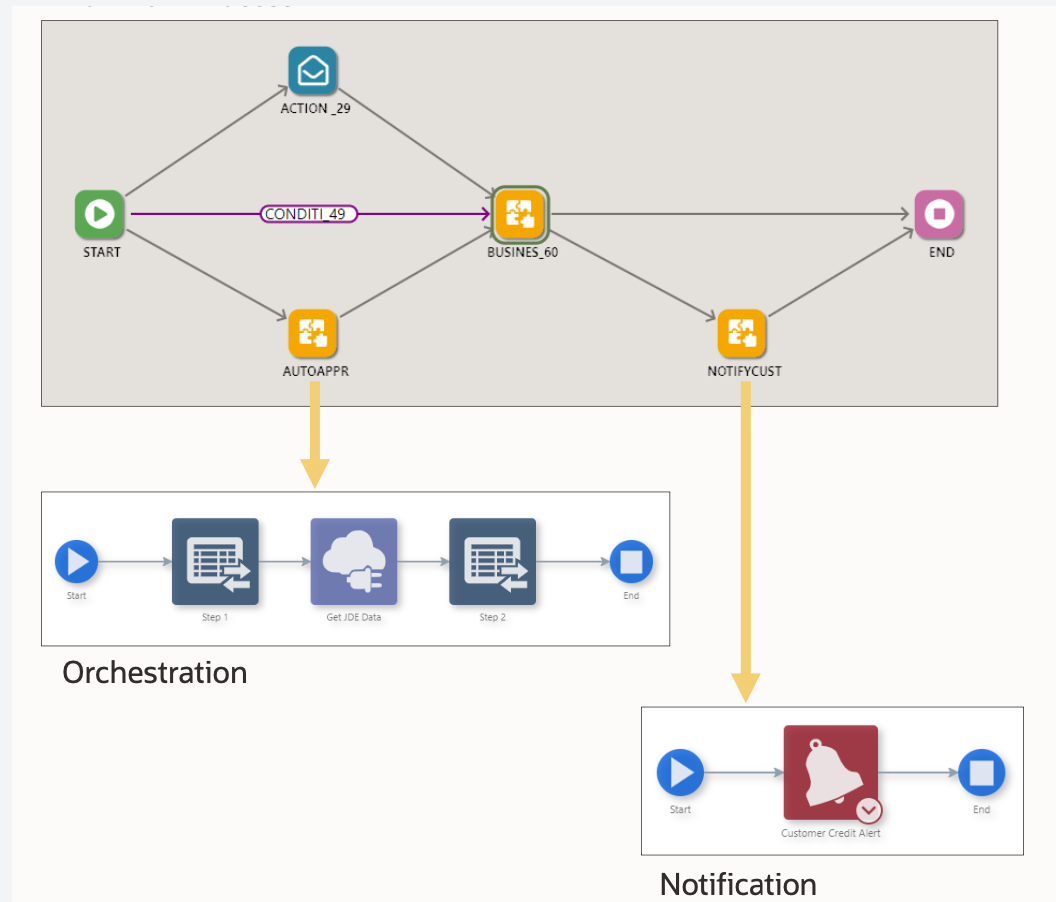
Features	TR & Above	Date
<ul style="list-style-type: none"> • Feature Released 	9.2.6 Release 22	Oct'21
<ul style="list-style-type: none"> • Business Function Support. Ability to call BFSN from Logic Extension as a step in the process. • Diagnostics (debug). Provides the business analyst visibility into the values of variables and the execution path of a logic extension in real time. 	9.2.6.3	Apr'22
<ul style="list-style-type: none"> • Ability to start a Workflow from a Logic Extension. 	9.2.6.4	Jun'22
<ul style="list-style-type: none"> • Ability to call Logic Extension directly from a Form Extension • Ability to aggregate data from a EnterpriseOne table read 	9.2.7 Release 23	Oct'22
<ul style="list-style-type: none"> • Form Control Extensions. ability to act on the properties of controls on the form, such as to show, hide, enable, disable, or change the color of a field • Nested Logic Extensions. Ability to call logic extensions within another logic extensions, enabling a common pattern in programming of reusing objects. 	9.2.7.3	Apr'23
<ul style="list-style-type: none"> • Logic Extensions Assertions. With a provided built-in framework, you can save the set of inputs/outputs and use them to test/revalidate a Logic Extension after changes applied or system upgrades. 	9.2.7.4	Jun'23



Workflow

► Available with TR 9.2.7 or Release 23 (Oct'22)

- Ability to Call Orchestrations from a Workflow
- Enables workflows to send subscription-based messages based on conditions



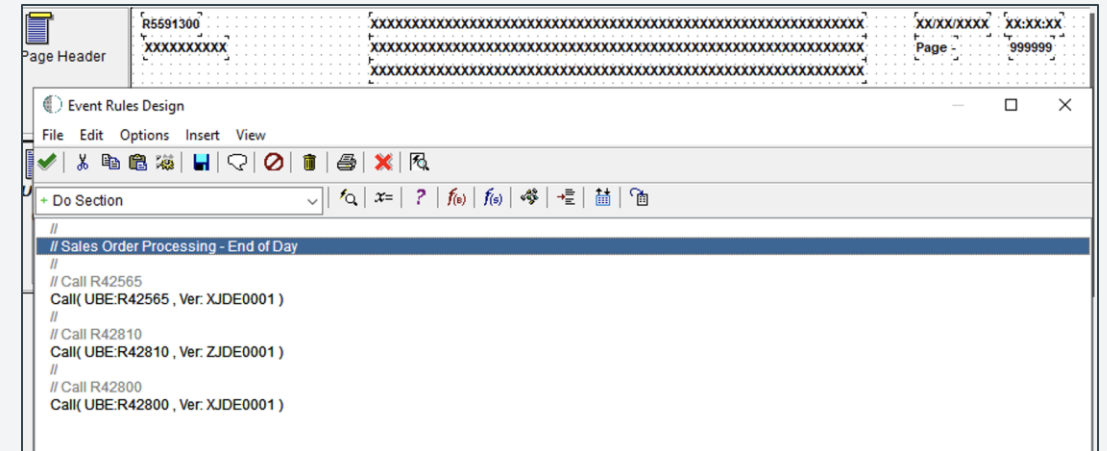
Business Cases & Solutions

Quick glance!

Wrapper

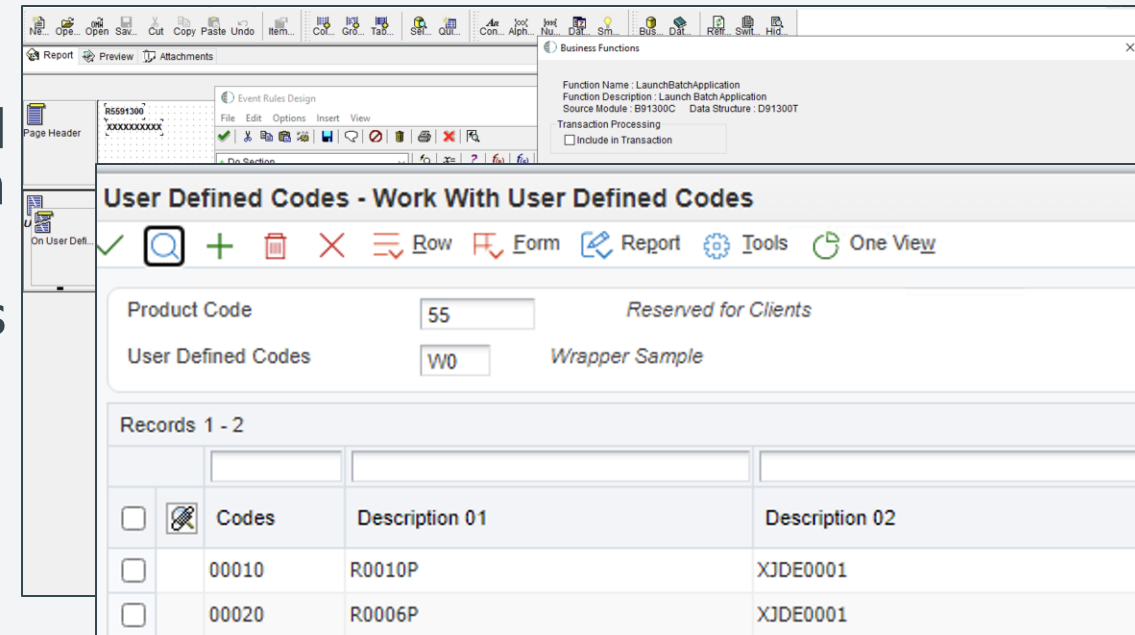
➡ Version 1 – Created for Xe (2000)

- Customer migrated from World and they were using the @Menus intensively
- This version had UBEs Names and Versions hardcoded



➡ Version 2 – Created for 8.9 (2003)

- Customer implementing 8.9 and needed something better for scheduler with dependencies and easier to configure
- Using custom UDCs to control UBEs/Versions to be executed, and sequencing
- Using B91300C to launch Batch Application



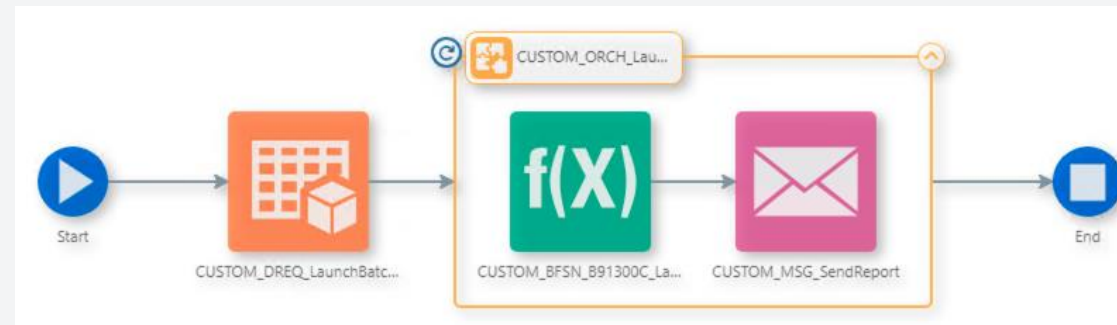
Wrapper

► Version 3 – Orchestrator

- Same concept as Version 2, using UDC to drive the UBE/Version and sequence
- Using Custom Request to execute the B91300C



- Second version of the Orchestration was created to include sending the output (via email) to the executioner



Mass Approve/Post Accounting Batches

► Business Case

- We are all familiar with batches left “in use” status and how tedious is to go over the list to change the status to “Approved”, allowing the G/L Posting (R09801) or the Batch To Detail Integrity (R007031) programs to do their job.

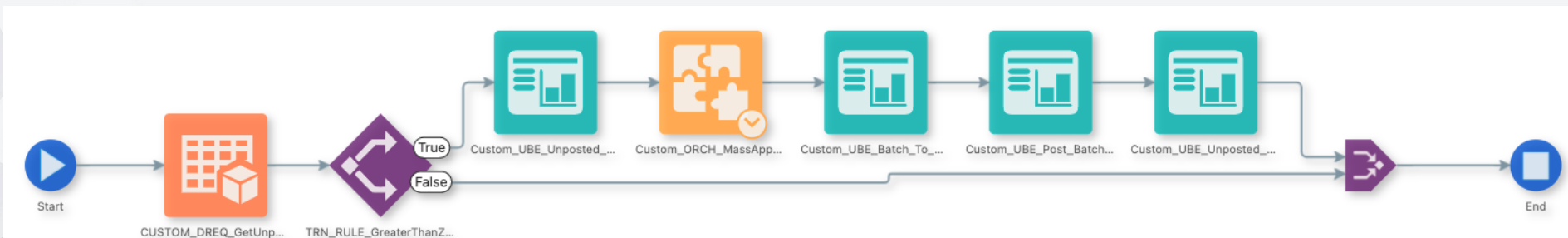
► Solutions

- Manual: At month-end, Accounting uses the [Work With Batches] to change the Status approve and post them.
- Custom UBE: a custom UBE has developed to change Status on F0011 from U to A. UBE added to scheduler and ran before the R09801.
- **Orchestrator**: Mass Approve, Run Integrity, Run Post, and notify subscribers

Mass Approve/Post Accounting Batches

► Orchestrator

- Data Request – to get Unposted/Unapproved Batches
- Rule – to check if orchestration needs to be executed (only when records found)
- Form Request – to Approve Batches
- Report Request – to execute Unposted Batches (R007011), Integrity (R007031) and G/L Post (R09801)
- Notification – to notify subscribers with output of reports executed
- Solution is executed from Scheduler or on-demand from a Composed Page



G/L Journals (2 solutions, use the best, or both!)

➡ Version 1- Using "Z" Tables

- Custom UBE that reads a CSV or TXT file to populate the F0911Z1 table. Then execute R09110Z.
- Preferred solution for **mass loads** from other systems, allowing data scrubbing and data manipulation.
- Developed the solution for a client trying to process over 10K lines from ADP (Payroll). The initial solution of copy/paste from excel into the grid timed-out.

➡ Version 2 – Using Orchestrator

- Using CSV file
- Preferred solution for **small set** of journal entries

Orchestrator vs UBE Testing
(in Seconds)

Lines	Orchestrator	UBE	% Faster
10	0.16	0.06	63
20	0.19	0.09	53
40	0.24	0.11	54
100	0.26	0.14	46
200	0.43	0.21	51
500	0.59	0.28	53

A/R Invoices (3 solutions, use the best, or all!)

➡ Version 1- Using "Z" Tables

- Custom UBE that reads a CSV or TXT file to populate the F03B11Z1 and F0911Z1 tables. Then execute R03B11Z1A.
- Preferred solution for **mass loads** from other systems, allowing data scrubbing and conversions.

➡ Version 2 - Using Interactive custom application with grid import capabilities

- The P0311Z1 does not allow to copy/paste into the grid from excel.
- Custom application P5503BZ1 (copy of P03B11Z1 with 2 new Headerless forms). Tables F03B11Z1 and F0911Z1 are populated, then execute R03B11Z1A.
- Preferred solution for Open A/R **initial load** (new implementation). Business owner can provide a excel sheet with the required data after scrubbing it.

➡ Version 3 – Using Orchestrator

- Using CSV file
- Preferred solution for **small set** of invoices

Custom Code and Orchestrator working together!

► Project Cost Tracking

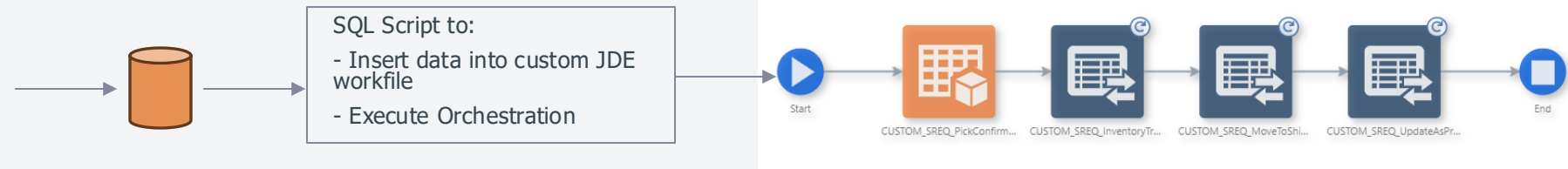
- Custom Inquiry application to gather all ETO Project associated cost by Project Number: Planned, Estimated, and Actual
- Application outputs data to a workfile as part of the process, then displays the on the grid
- Business owners have the need to report at a higher-level for all open ETO projects
- Before Orchestrator user was using the inquiry one project at the time, and exporting data to excel
- **Solution:**
 - ✓ Created an Orchestration that uses a Data Request as input for the Form Request (custom application)
 - ✓ Orchestration runs nightly on scheduler refreshing the workfile for all open ETO projects
 - ✓ Using SQL Reporting Services to pull data from the workfile into Excel



Custom Code and Orchestrator working together!

► KARDEX or Modula Consumption

- Using Kardex or Modula storage for some items. Both setup as secondary locations in JDE
- All items have a primary location (different than BLANKS), but for these items is not Kardex nor Modula
- Sales Order and Work Orders default to the primary location
- When items were picked from these locations, before Orchestrator, user was manually doing inventory transfers from these location to the primary, so both Sales Order and Work Orders will deplete inventory correctly
- **Solution:**
 - ✓ Created Orchestrations that use Data Request (custom JDE workfile) as input for the Form Request
 - ✓ Orchestrations automatically executed using SQL scripts triggered from data created by the storage devices
 - ✓ In addition, Orchestrations execute Pick Confirm and WO Issues automatically

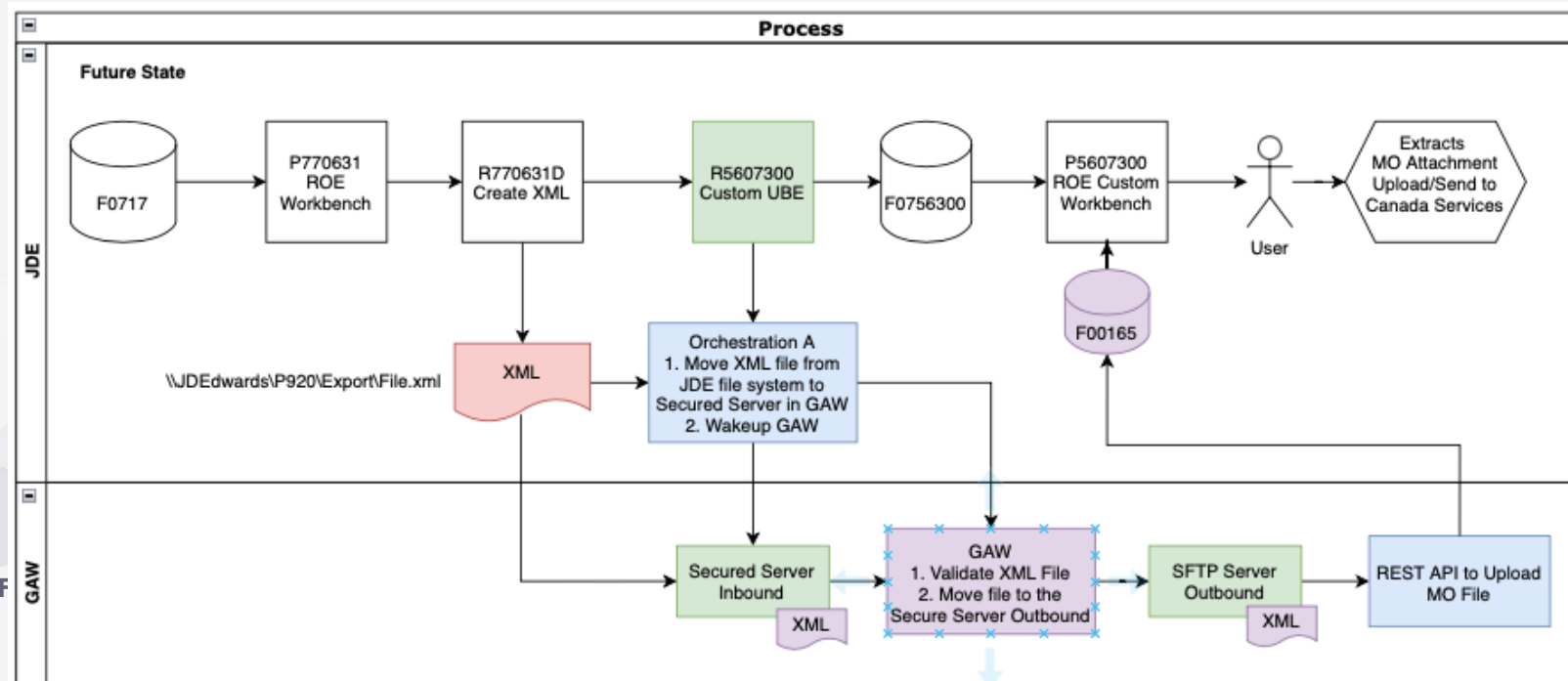


Custom Code and Orchestrator working together!

➡ ROE Web (Record of Employment for Canada)

- **Solution:**

- ✓ Custom UBE to gather additional data, move file from \Export to \SecuredFolder, execute Orchestration to launch GAW
- ✓ GAW validates XML for data issues only
- ✓ GAW inserts the XML file as Media Object to JDE using REST API

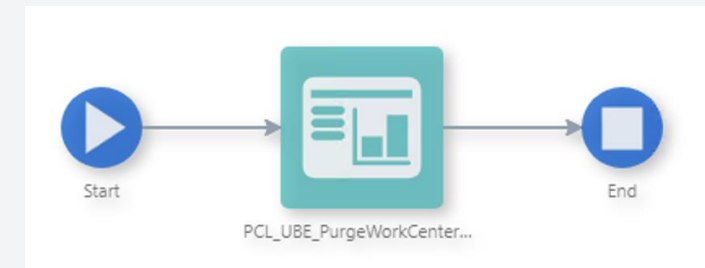


Simple Solution, big win!

► Work Center Purge

- Orchestration calling R01131P with Data Selection override (by Address Number)
- Orchestration called from Work Center as a push button thru From Extension

The screenshot shows the 'Work Center' application window. In the top right, there is a 'Personal Form: (No Personalization)' dropdown and a 'Layout' button. Below the title bar, there is a toolbar with icons for 'New Message', 'Form', 'Row', and 'Tools'. The main area contains several input fields: 'Address Number / User / Role' with the value '1', 'Associated Address Number' with the value '1', and 'Tickler Date' with the value '09/12/2024'. To the right of these fields is a 'Syntax' section with a checkbox for 'All Queues' and a button labeled 'Purge Work Center'. Below the input fields, there is a 'Records 1 - 2' section with a table showing 'Queues'. The table has two rows: 'Deleted' (checked) and 'Submitted Jobs' (unchecked). An 'Enter Input' dialog box is open in the foreground, titled 'PCL_ORCH_PurgeWorkCenterByUser'. It has a 'Reset' button in the top right. Below the title bar, there is a section for 'Orchestration Inputs' with a table. The table has two columns: 'Name' and 'Value'. The first row has 'Address Number' in the 'Name' column and '1' in the 'Value' column. At the bottom of the dialog box are 'OK' and 'Cancel' buttons.



Simple Solution, big win!

► Change Version Security

- Most of XJDExxxx versions come with Security set to 1, when installed.
- Or sometime user creates a new version with Security different than 0.
- Unless you login with user JDE or with the user who created the version, the only way to see the setup (processing options, data selection, and sequence) is by making a copy the version.
- In the past, SQL was an option to change Security when versions were setup under a user that was not longer with the company, or when JDE password is unknown.
- **Solution:**
 - ✓ Logic Extension to reset Version Security or to reset User ID
 - ✓ Logic Extension called from Versions review as a push button thru From Extension
 - ✓ With this approach, sysadmin or BA, can easily change either value to allow the review of the version, then set it back the way it was. With [Personal Forms] the new fields/buttons were secured by version.

Batch Versions - Work With Batch Versions - Available Versions

Personal Form: (No Personalization) Layout: (No Layout)

Main Application

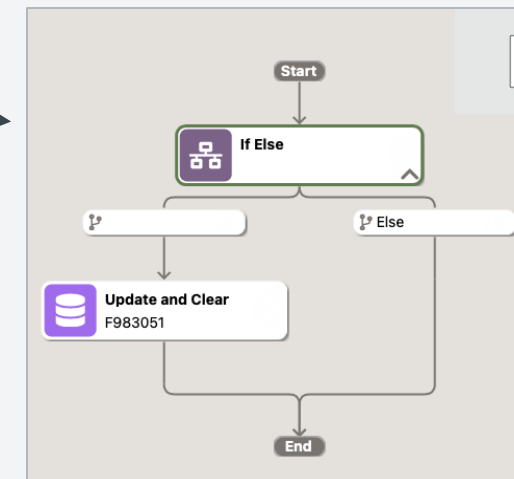
Batch Application: R42565 Print Invoices

Read Only Report (Y/N): N Web and Client

User Exclusive: 0 User ID:

Reset Security Reset User

Version	Version Title	User	Last Modified	Security	Description	Client Platform
XJDE0001	Print Invoice	JDE	04/23/2013	1	Medium Security	
XJDE00011	Print Invoice - Transportation Mod Version	JDE	03/26/2007	1	Medium Security	
XJDE0002	Batch EDI - Invoice Transaction (810) In Subsystem	JDE	03/14/2018	0	No Security	
XJDE0003	Batch EDI - P.O. Acknowledgment Transaction (855)	JDE	03/26/2007	1	Medium Security	
XJDE0005	Sales Invoices - Proofs	JDE	03/26/2007	1	Medium Security	
XJDE0007	Sales Invoices - Item Consolidation	JDE	03/26/2007	1	Medium Security	
XJDE0009	Print Invoice - Cycle Billing Version	JDE	03/26/2007	1	Medium Security	
XJDE0010	Sales Invoices - Interbranch Batch	JDE	03/26/2007	1	Medium Security	
XJDE0012	Sales Invoices - EDI Invoice	JDE	11/14/2012	1	Medium Security	
XJDE0013	Sales Invoices - EDI Prod Transfer	JDE	03/26/2007	1	Medium Security	



Simple Change, big win!

- ➡ P4210 – to allow Orchestration or other custom process to execute properly after Sales Order is committed.
 - By design, the application uses cache to process sales order header and detail.
 - In the event rule, the [F4211 End Document] function is called Asynchronously or Synchronously, depending on processing option value (Customer Service Functionality).
 - Likely, this Processing Option is off (blanks) hence the [F4211 End Document] call occurs Asynchronously. What this means is that inserting to F4201/F4211 (and other tables) will occur behind scenes, allowing user can continue with another order w/o waiting for the order to be committed.
 - Issue here is that if your Orchestration (or other custom processes) depends on the data committed to the table, then there is chance the data will not be in the tables yet (depending on order size –lines- and system response time).
 - **Solution:** apply a very small change to the event rules to always call the [F4211 End Document] Synchronously.

Simple Change, big win!

- ➡ P4210 – to allow Orchestration or other custom process to execute properly after Sales Order is committed.

Current

Current interface showing the 'Sales Order Detail Revisions' window. The 'Post Button Clicked' event is selected in the Event Rules Design window. The Business Functions window shows the F4211 End Document function. The main form displays order details and a 'Quantity Ordered' section.

Enhanced

Enhanced interface showing the 'Sales Order Detail Revisions' window. The 'Associate Orchestrations' dialog is open, showing the 'Post Button Clicked' event. The 'Form Extension Manager' window is also open, showing the 'Available Business View Columns' and 'Extension Only' sections. The main form displays order details and a 'Quantity Ordered' section.

Associate Orchestrations

1 Select Event 2 Select Orchestration 3 Define Inputs 4 Execution 5 Define Outputs

Associate Orchestration with Event :

Control	Event
OK	Post Button Clicked

Form Extension Manager

Name: P4210_W4210A

Edit Tab Sequence: ☐

Associate Orchestrations

Add Button Manage Exits

Available Business View Columns: Sales Order Detail Revisi...

Configuration: Add Mode ☐ Update Mode ☐

Override Add/Update: ☐

Override: ☐

Sales Order Detail Revisions [V4201B]: ☒ Form

Column Search:

Desc: DD Item

Date - Actual Ship Date [F4201.ADDJ]	
Date - Actual Delivery [F4201.ADLJ]	<input type="button" value="+"/>
Actual Shipment Time [F4201.ADTM]	<input type="button" value="+"/>
Apply Freight - Y/N [F4201.AFT]	<input type="button" value="+"/>
Buyer Number [F4201.ANBV]	<input type="button" value="+"/>
Price and Adjustment Schedule [F4201.ASN]	<input type="button" value="+"/>
Associated Text [F4201.ATXT]	<input type="button" value="+"/>

Data Structure

Value	Dir	Data Item
FI Jobnumber	→	mnCMJobNo
FC Order Number	→	mnSalesOrderNo
VA frm_CTID_Computer_ID	→	szCMComputerID
VA frm_ERRC_Error_Code	→	cCMErrorCondition
FC Order Type	→	szOrderType
FC Order Company	→	szKeyCompany
FC OTOT: Order Total Display	→	mnOrderTotal
FC FAP-Foreign Total Display	→	mnForeignOrderTotal
FC Base Currency Code	→	szBaseCurrencyCode
EP4210	→	szProgramID
<NOT Assigned>	→	szWorkstationID
EP4210	→	szCMProgramID
VA frm_szVersion_VERS	→	szCMVersion
VA frm_TMCR_Time_Of_Day	→	mnTimeOfDay
VA frm_TOTC_Total_Cost	→	mnTotalCost
VA frm_FCST_Foreign_Total_Co	→	mnForeignTotalCost
VA frm_cSuppressBlanketsRis_	→	cSuppressRivBlinkFlag

Transfer Filtering: ☐ Do Filtering

Notes:

Simple Change, big win!

► P4210 – Open Sales Orders Mass Cancellation

- Business case: Mass canceling Open Sales Orders due to quality issues for specific item.
- As we all know, the only effective way to cancel an Open Sales Order is through the P4210 (or P42101) application. This ensures that all related tables are updated accordingly.
- **Solution:** use Orchestration with a Data Request over the F4211 to retrieve Open lines for a particular Item and Branch.
 - TR 9.2.5.2 - How to Select Multiple Rows and add a Filter for row Selection in a Form Service (Doc ID 2753390.1)
 - Prior to TR 9.2.5.2, we created a copy of P4210 (P574210) and added 4 lines of Event Rules to pass the Line Number and use it as filter.
 - In addition, prior to TR 9.2.5.2, you can use this solution - How Do I Update/Delete A Specific Line In A Grid for No QBE in the Form? (Doc ID 2565586.1)



Simple Change, big win!

► Form Extensions – one of my best friends!

- Simple changes
 - ✓ Say goodbye to Databrowser; missing a field on the grid? – just add it!
 - ✓ Added new columns: use for CafeOne, queries, watchlist, and you can apply columns security
 - ✓ Need to create simply forms (just the required fields)? – just move the fields around!
 - ✓ Need to exit to other applications? – simple, just add a Row or Form Exit to the form!
 - ✓ Need to execute UBEs from the form? – add buttons with Orchestrations or Logic Extensions associated to them
 - ✓ Need to add associated UDC, Address Book, Company, or BU description to the grid? – just right-click and add it!
 - ✓ Need to increase the size of grid (more than the default, 10 records)? – just right-click on grid and change the grid-properties!
 - ✓ Much more, You need to try it!!!!

Out-of-the-box Content Available

Notifications & Orchestrations

► EnterpriseOne Delivered Notifications (Doc ID 2365066.1)

- Total of 236 Components
- Requires TR 9.2.2.4 or above

Product and Notifications	Dependent UDOs
Accounts Payable	7
JDE_NOTIFY_04_Payee_Control_Approvals	3
JDE_NOTIFY_04_Payments_Overdue	4
Accounts Receivable	13
JDE_NOTIFY_03B_Customers_Over_Credit_Limit	3
JDE_NOTIFY_03B_Delinquency_Notices_to_Approve	3
JDE_NOTIFY_03B_Important_Customers_On_Hold	3
JDE_NOTIFY_03B_Invoice_Pay_Items_Overdue	4
Capital Asset Management	18
JDE_NOTIFY_13_Open_Severe_Alerts	3
JDE_NOTIFY_13_PO_At_Status	3
JDE_NOTIFY_13_Unassigned_WO	3
JDE_NOTIFY_13_Open_Alerts	3
JDE_NOTIFY_13_Overdue_PMs	3
JDE_NOTIFY_13_Equipment_Down	3
Foundation	8
Foundation Rule and Schedules	6
Foundation Schedules	2
General Ledger	29
JDE_NOTIFY_09_Account_Balance_Errors	3
JDE_NOTIFY_09_Batches_Awaiting_Approval	3
JDE_NOTIFY_09_Batches_in_Error	3
JDE_NOTIFY_09_Batches_Out_of_Balance	4
JDE_NOTIFY_09_Transactions_WO_Acct_Master_Records	4
JDE_NOTIFY_09_Companies_Out_of_Balance	4
JDE_NOTIFY_09_Account_Balances_WO_BU	4
JDE_NOTIFY_09_Batch_Header_Errors	4
HCM Foundation	3
JDE_NOTIFY_05A_Pending_Terminations	3
Human Resources Management	6
JDE_NOTIFY_08_Appraisal_Status	3
JDE_NOTIFY_08_Pending_Tasks	3
Procurement and Subcontract Management	14
JDE_NOTIFY_43_Exp_Blanket_Ord	4
JDE_NOTIFY_43_Held_Purchase_Orders	4
JDE_NOTIFY_43_Orders_Awt_Approval	3
JDE_NOTIFY_ReceiptRoutingInInspection	3

Product and Notifications	Dependent UDOs
Product Data Management	3
JDE_NOTIFY_30_ECR_Review	3
Project Costing	4
JDE_NOTIFY_51_Job_Logs_Soon_to_Expire	4
Real Estate Management	40
JDE_NOTIFY_15_Leases_to_Expire	4
JDE_NOTIFY_15_AmortizationSchedulesMissing	3
JDE_NOTIFY_15_AssetBalancesRequireUpdates	3
JDE_NOTIFY_15_CommencementJournalsNeeded	3
JDE_NOTIFY_15_CommencementJournalErrors	3
JDE_NOTIFY_15_IncompleteLeaseTerms	3
JDE_NOTIFY_15_LeasesSetToExpire	3
JDE_NOTIFY_15_MovedInWithinLastMonth	3
JDE_NOTIFY_15_NewLeasedAssets	3
JDE_NOTIFY_15_NewVacanciesInPastMonth	3
JDE_NOTIFY_15_UnitsMissingAsset	3
JDE_NOTIFY_15_LeaseTermsChanged	3
JDE_NOTIFY_15_LeasesRecentlyTerminated	3
Requirements Planning	3
JDE_NOTIFY_34_ScheduleThreats	3
Requisition Self Service	11
JDE_NOTIFY_43E_High_Priority_Reqs	4
JDE_NOTIFY_43E_Over_Budget_Reqs	3
JDE_NOTIFY_43E_Spl_Request_Reqs	4
Sales Order Management	27
JDE_NOTIFY_42B_Backordered_SO	3
JDE_NOTIFY_42B_Canceled_SO	3
JDE_NOTIFY_42B_Held_Order_SO	4
JDE_NOTIFY_42B_HighPriorityLate_SO	4
JDE_NOTIFY_42B_New_EDI_Inbound_SO	4
JDE_NOTIFY_42B_Ready_To_Invoice_SO	3
JDE_NOTIFY_42B_Ready_To_Ship_SO	3
JDE_NOTIFY_42B_New_RMA	3
Time and Labor	8
JDE_NOTIFY_05T_EE_Excess_Hrs	4
JDE_NOTIFY_05T_Time_Cards_To_Approve	3
JDE_NOTIFY_05T_Time_Entry_Reminder	1
Transportation Management	3
JDE_NOTIFY_49_TotalWeight	3

Product and Notifications	Dependent UDOs
US Payroll	17
JDE_NOTIFY_07_Payrolls_To_Finalize	3
JDE_NOTIFY_07_Unposted_JE_Batches	3
JDE_NOTIFY_07_Unprocessed_Interims	3
JDE_ORCH_07_Process_All_Lock_List_Employees	8
Grower Management	4
JDE_NOTIFY_40G_LastLoad	4
Grower Pricing and Payments	3
JDE_NOTIFY_43C_Pending_Grower_Payment	3
Advanced Pricing	3
JDE_NOTIFY_45_Price_Change_Approval	3
Work Order Processing	4
JDE_NOTIFY_48_Overdue_WOs	4
Projects - Change Management	8
JDE_NOTIFY_53_Unapproved_Change_Requests	4
JDE_NOTIFY_53_Unapproved_Urgent_Change_Requests	4

October 1 – 3, 2024

Other Orchestrator Components (samples)

➡ As of TR 9.2.8 140+ sample Orchestrations available

Address Book		
JDE_ORCH_CustomerSearch_CustomerContacts	ORC_2012150001JDE	32281279
JDE_ORCH_CustomerSearch_ABDefaultImgCheck	ORC_2012150002JDE	32281279
JDE_ORCH_CustomerSearch_CompanyAddress	ORC_2012150003JDE	32281279
JDE_ORCH_CustomerSearch_CustomerPhoneNum	ORC_2012150004JDE	32281279
JDE_ORCH_CustomerSearch_ABNameFetch	ORC_2012150005JDE	32281279
JDE_ORCH_CustomerSearch_CustomerContactInfo	ORC_2012150006JDE	32281279
JDE_ORCH_CustomerSearch_GetCustomerPrice	ORC_2012150007JDE	32281279
JDE_ORCH_CustomerSearch_CustomerCheck	ORC_2012150008JDE	32281279
JDE_ORCH_CustomerSearch_CustomerEmail	ORC_2012150009JDE	32281279
JDE_ORCH_CustomerSearch_ContactPhoneNumbers_Bot	ORC_2012160012JDE	32281279
JDE_ORCH_CustomerSearch_PaymentTerms_Bot	ORC_2012160020JDE	32281279
Accounts Receivable		
JDE_ORCH_03B_Delinquency_Notices_to_Approve	ORC_1802060008JDE	27436971
JDE_ORCH_03B_Customers_Over_Credit_Limit	ORC_1802060010JDE	27436971
JDE_ORCH_03B_Important_Customers_On_Hold	ORC_1802060011JDE	27436971
JDE_ORCH_03B_Invoice_Pay_Items_Overdue	ORC_1802060012JDE	27436971
Accounts Payable		
JDE_ORCH_04_Payee_Control_Approvals	ORC_1802070006JDE	27437057
JDE_ORCH_04_Payments_Overdue	ORC_1802070007JDE	27437057
JDE_ORCH_04_Add_Supplier_Invoice	ORC_1802140001JDE	27668607
Payroll / HCM		
JDE_ORCH_05A_Pending_Terminations	ORC_1802060007JDE	27443847
JDE_ORCH_08_Pending_Tasks	ORC_1802070002JDE	27472764
JDE_ORCH_08_Appraisal_Status	ORC_1802070004JDE	27472764
JDE_ORCH_07_Unposted_JE_Batches	ORC_1802120005JDE	27472745
JDE_ORCH_07_Unprocessed_Interims	ORC_1802120006JDE	27472745
JDE_ORCH_05T_EE_Excess_Hrs	ORC_1802130009JDE	27443882
JDE_ORCH_05T_Time_Cards_To_Approve	ORC_1807310006JDE	28313850
JDE_ORCH_07_Process_a_Lock_List_Employee	ORC_1807310008JDE	28313870
JDE_ORCH_07_Process_All_Lock_List_Employees	ORC_1808010003JDE	28313870
JDE_ORCH_07_Process_a_Lock_List_Employee_2020	ORC_2011230003JDE	32188231
JDE_ORCH_07_Process_All_Lock_List_Employees_2020	ORC_2011230004JDE	32188231
General Accounting		
JDE_ORCH_09_Batch_in_Error	ORC_1802090005JDE	27472789
JDE_ORCH_09_Batch_Awaiting_Approval	ORC_1802090006JDE	27472789
JDE_ORCH_09_Batches_Out_of_Balance	ORC_1802120001JDE	27472789
JDE_ORCH_09_Companies_Out_of_Balance	ORC_1807310003JDE	28313885
JDE_ORCH_09_Account_Balances_WO_BU	ORC_1807310004JDE	28313885
JDE_ORCH_09_Batch_Header_Errors	ORC_1807310005JDE	28313885
JDE_ORCH_09_Transactions_WO_Acct_Master_Records	ORC_1808050003JDE	28313885
JDE_ORCH_09E_Emp_Expense_Submit	ORC_1810230001JDE	28705732

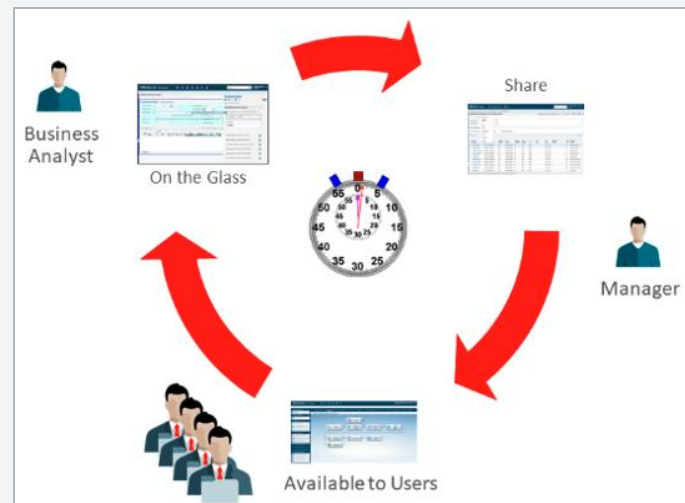
Plant/Equipment Management		
JDE_ORCH_13_Unassigned_WO	ORC_1801230001JDE	27431612
JDE_ORCH_13_PO_At_Status	ORC_1802020006JDE	27431612
JDE_ORCH_13_Open_Severe_Alerts	ORC_1802050004JDE	27431612
JDE_ORCH_13_Open_Alerts	ORC_1808260001JDE	28553427
JDE_ORCH_13_Overdue_PMs	ORC_1808260002JDE	28553427
JDE_ORCH_13_Equipment_Down	ORC_1808260003JDE	28553427
Shop Floor Control		
JDE_ORCH_UpdateWORequested	ORC_1707070002JDE	26403458
JDE_ORCH_DeterminePartsListItemShortage	ORC_1707120002JDE	27925851
JDE_ORCH_CreatePartsListShortageForItem	ORC_1707120004JDE	27925851
JDE_ORCH_31_PlannerShortageNotify	ORC_1707280001JDE	26403458
JDE_ORCH_CreatePartsListShortagesParent	ORC_1708080001JDE	27925851
JDE_ORCH_RemoveOrderItemShortage	ORC_1708170001JDE	26403458
JDE_ORCH_DetermineAndRemoveShortage	ORC_1708170002JDE	26403458
JDE_ORCH_31_BuyerShortageNotify	ORC_1708280001JDE	26403458
JDE_ORCH_31_LowYieldCheck	ORC_1709190001JDE	26795909
JDE_ORCH_31_ScrapCheckProcess	ORC_1709190002JDE	26795909
JDE_ORCH_34_ScheduleThreats	ORC_1802010001JDE	27472873
Inventory Management		
JDE_ORCH_InventoryAvail_ABDefaultImgCheck	ORC_2012110001JDE	32281260
JDE_ORCH_InventoryAvail_ItemDescDetails	ORC_2012110002JDE	32281260
JDE_ORCH_InventoryAvail_ItemInfo	ORC_2012110003JDE	32281260
JDE_ORCH_InventoryAvail_UOM	ORC_2012110004JDE	32281260
JDE_ORCH_InventoryAvail_BUInfo	ORC_2012110005JDE	32281260
JDE_ORCH_InventoryAvail_ItemDetails	ORC_2012110006JDE	32281260
JDE_ORCH_InventoryAvail_BU_Desc	ORC_2012110007JDE	32281260
JDE_ORCH_InventoryAvail_AvailabilityCheck	ORC_2012110008JDE	32281260
JDE_ORCH_CustomerSearch_ItemAvailability	ORC_2012140006JDE	32281310
JDE_ORCH_CustomerSearch_ItemDetails	ORC_2012140007JDE	32281310
JDE_ORCH_CustomerSearch_BU_Desc	ORC_2012140008JDE	32281310
JDE_ORCH_CustomerSearch_ItemAvailabilityInfo	ORC_2012140009JDE	32281310
JDE_ORCH_CustomerSearch_PriceList	ORC_2012140010JDE	32281310
JDE_ORCH_CustomerSearch_ItemDescDetails	ORC_2012140011JDE	32281310
JDE_ORCH_CustomerSearch_ItemLotDetail	ORC_2012140012JDE	32281310
JDE_ORCH_CustomerSearch_ItemBasePrice_Bot	ORC_2012160016JDE	32281310
JDE_ORCH_CustomerSearch_ItemBranchPlants_Bot	ORC_2012160018JDE	32281310

Sales Management		
JDE_ORCH_42B_HighPriorityLate_SO	ORC_1802040001JDE	27472904
JDE_ORCH_42B_Held_Order_SO	ORC_1802060001JDE	27472904
JDE_ORCH_42B_Backordered_SO	ORC_1802060014JDE	27472904
JDE_ORCH_42B_Canceled_SO	ORC_1802060016JDE	27472904
JDE_ORCH_42B_NEW_EDI_INBOUND_SO	ORC_1807250001JDE	28313984
JDE_ORCH_42B_Ready_To_Invoice_SO	ORC_1807310009JDE	28313984
JDE_ORCH_42B_Ready_To_Ship_SO	ORC_1808010001JDE	28313984
JDE_ORCH_42B_New_RMA	ORC_1808010002JDE	28313984
JDE_ORCH_CustomerSearch_UDCFetch	ORC_2012140001JDE	32281320
JDE_ORCH_CustomerSearch_SalesOrderLineDetails	ORC_2012140002JDE	32281320
JDE_ORCH_CustomerSearch_SalesOrderInfo	ORC_2012140003JDE	32281320
JDE_ORCH_CustomerSearch_SearchSONo	ORC_2012140004JDE	32281320
JDE_ORCH_CustomerSearch_SearchSalesOrder	ORC_2012140005JDE	32281320
JDE_ORCH_CustomerSearch_ActiveSalesOrders_Bot	ORC_2012160010JDE	32281320
JDE_ORCH_CustomerSearch_GetDatesForOrder_Bot	ORC_2012160014JDE	32281320
JDE_ORCH_45_Price_Change_Approval	ORC_1808020002JDE	28314162
JDE_ORCH_49_TotalWeight	ORC_1802150001JDE	27472889
Procurement		
JDE_ORCH_43A_RRInspectionNotify	ORC_1708290001JDE	26725489
JDE_ORCH_43_Held_Purchase_Orders	ORC_1802060019JDE	27472931
JDE_ORCH_43_Orders_Awt_Approval	ORC_1802070003JDE	27472931
JDE_ORCH_43E_Over_Budget_Reqs	ORC_1802080001JDE	27472961
JDE_ORCH_43E_Spl_Request_Reqs	ORC_1802080002JDE	27472961
JDE_ORCH_43E_High_Priority_Reqs	ORC_1802080005JDE	27472961
JDE_ORCH_43_Update_Purchase_Order_Status	ORC_1802130004JDE	27668552
JDE_ORCH_43_Retrieve_Purchase_Order_Data	ORC_1802130005JDE	27668552
JDE_ORCH_43_Exp_Blanket_Ord	ORC_1802130007JDE	27472931
JDE_ORCH_43C_Pending_Grower_Payment	ORC_1807240006JDE	28314204
JDE_ORCH_PO_Approval_Order_Info	ORC_2012140022JDE	35580826
JDE_ORCH_PO_Approval_BP_Filter	ORC_2012140023JDE	33388846
JDE_ORCH_PO_Approval_Line_Remarks	ORC_2012140024JDE	33388846
JDE_ORCH_PO_Approval_Reject	ORC_2012140025JDE	33388846
JDE_ORCH_PO_Approval_ORCH	ORC_2012140026JDE	35875865
JDE_ORCH_PO_Approval_Order_Remarks	ORC_2012140027JDE	33388846
JDE_ORCH_PO_Approval_Approve	ORC_2012140028JDE	33388846
JDE_ORCH_PO_Approval_BP_Name_Filter	ORC_2012140030JDE	33388846
JDE_ORCH_PO_Approval_ABDefaultImgDownload	ORC_2109220001JDE	33388846
JDE_ORCH_43_VBRConsolidated	ORC_2310130001JDE	35892820
Other		
JDE_ORCH_48_Overdue_WOs	ORC_1807250004JDE	28313910
JDE_ORCH_51_Job_Logs_Soon_to_Expire	ORC_1802020007JDE	27473022
JDE_ORCH_53_Unapproved_Change_Requests	ORC_1807260001JDE	28313996
JDE_ORCH_53_Unapproved_Urgent_Change_Requests	ORC_1808020001JDE	28313996

Conclusions

Summary

- Coding is not going away, just find the good balance between Coding and Low-Code/No-Code.
- Adopting Low-Code Methodologies to enable:
 - Faster delivery of solutions, solving business problems immediately
 - Continuous Adoption / Staying Code-Current
 - Lowering the Total Cost of Ownership



Summary

➡ Guideline to avoid, minimize or eliminate customizations:

Step	Activity	Tips
1	Review the latest JDE version and its features.	Learnjde.com Leverage Product Catalog or Release Comparison tools
2	Review Processing Options and/or System Configuration	Review Implementation Guides and MOS Activity Rules, Line Type, Flex Accounting, Adv Pricing, etc.
3	Leverage Personalization Framework	Form Extensions, CafeOne, Grid Formats, Advanced Queries, Watchlist, Search Groups, Composed Pages Leverage preconfigured UXOne and Enterprise Automation Content
4	Leverage Orchestrator, with low-code/no-code approach	Calling Orchestrations, Logic Extensions and Notifications from Forms, composed pages and scheduler.
5	Leverage BI Publisher	This free, embedded tool allows you to design polished customer-facing forms and documents, and more.
6	Consider an Oracle Validated Solution	Many Oracle partners have developed solutions that work seamlessly with EnterpriseOne. These products are supported and guaranteed to be updated for new versions.

Summary

➡ Guideline to avoid, minimize or eliminate customizations:

Step	Activity	Tips
7	Consider a business process change	Assessing current processes is crucial to identify areas for streamlining, ultimately improving efficiency and productivity. Perhaps small changes allows you to use the system out-of-the-box, avoiding or eliminating customizations. Join a RUG (Quest) discuss your business challenges and seek advice.
8	Approach Customizations the right way!	If you've gone through the previous seven steps and haven't found a solution for your business needs, it's acceptable to turn to customization. However, be strategic – consider exploring Z files, interoperability, EDI, RTE processing, Web Services, NER, Localization, and other tools within JD Edwards (JDE) before starting from scratch. Often, the necessary components already exist within JDE; you just need to adjust them to fit your requirements. Always remember to follow JD Edwards naming conventions to ensure your customizations are preserved and ensure to DOCUMENT everything!

Other Tools

➡ To eliminate customizations

CHECK THIS OUT!



Tool	Description
Object Usage Tracking	<p>This tool provides enterprise-wide visibility on interactive applications (APP), batch applications (UBEs), and business functions (BFSN) executed, customized and patched in your environments. Out of the box UX One analytics help you identify modules in use, usage patterns, as well as peak usage and load across environments to give greater insight for usage, performance, issue analysis, and managing compliance.</p> <ul style="list-style-type: none">✓ TR 9.2.2.0 or later✓ ESUs for BUG 25306327, 25077539 and 26024939
Customization Object Analyzer	<p>This utility helps to identify the customizations in order to determine the impact and level of effort to retro-fit the customizations into the newer release of EnterpriseOne.</p>
Decustomizer Analysis Report	<p>This utility helps to identify and target simple UI customizations to interactive applications. Allowing you to replace them using Personalization and Extensibility framework.</p> <ul style="list-style-type: none">✓ R9540DC – Decustomizer Data Load✓ R9540DCR – Decustomizer Analysis Report



Change Control (Management)

► Governance Process

- Establish a robust governance process that adheres to company customization and security policies.
- Implement a clear procedure for the creation, review, and promotion of Objects and User Defined Objects (UDOs) to ensure consistency and control over system customization.

► Security

- Define what UDOs can be created and/or customized by whom. This will protect sensitive data and important system configurations.

► Naming Conventions

- Consistent and descriptive naming conventions are crucial for tracking User Defined Objects (UDOs), their purposes, and creators, especially in large business environments.

► Training

- Ongoing education about UDO capabilities and creation methods is essential for effective utilization. All users authorized to create UDOs should receive training on how to use them effectively.

► **Documentation, Documentation, Documentation !!!!**

- Thorough documentation of Customizations and UDOs, is essential to ensure that anyone can understand their functionality, purpose, and changes over time.

Known Situations

➡ Is it Possible to Populate B98ORCH Response Into a Form Grid? (Doc ID 2777843.1)

- **Goal:** Customer has an orchestration that is doing a search using a REST API where they are able to consume the search API using orchestrations and get a response back which is formatted as a simple array with each result being a record within the array. Customer would like to take the array from the response and map the values into a JDE form grid to display for the user to select.
- **Solution:** We don't support array output back into E1 grid or business function when called from B98ORCH. Instead, the customer can write an orchestration where they retrieve the array and then call a form service request to insert all the rows into the E1 form.

Known Situations

➡ How to Run B98ORCH Asynchronously? (Doc ID 2622599.1)

Event Editor - Business Functions

Function Name : CallOrchestrationNotification
Function Description : Call Orchestration or Notification
Source Module : B98ORCH Data Structure : D98ORCH

Search Here

Available Objects

- Special Values
 - <Literal>
 - <Blank>
- Processing Option
 - PO cPostalAddressRetrieval
 - PO cPostalCodeValidate
 - PO cSelfServiceMode
 - PO cTypeCode
 - PO GoToCSMS

Data Structure

Value	Dir	Data Item
<NOT Assigned>	→	szName_FUNCNM
<NOT Assigned>	→	szType_WOTYP
<NOT Assigned>	→	szInputType_ACTYP
<NOT Assigned>	→	szOutputType_ACTYP
1	→	cWaitForResponse_ER066
<NOT Assigned>	←	cError_EV01
d>	→	szInputString_REPTXT
d>	→	szName1_ENTRNM
d>	→	szValue1_TSTRING
d>	→	szName2_ENTRNM
d>	→	szValue2_TSTRING
d>	→	szName3_ENTRNM
d>	→	szValue3_TSTRING
d>	→	szName4_ENTRNM
d>	→	szValue4_TSTRING
d>	→	szName5_ENTRNM
d>	→	szValue5_TSTRING

Single value

OK Cancel Delete Add

Single value

Asynchronously - Run Process

er Notes OK Cancel

Known Situations

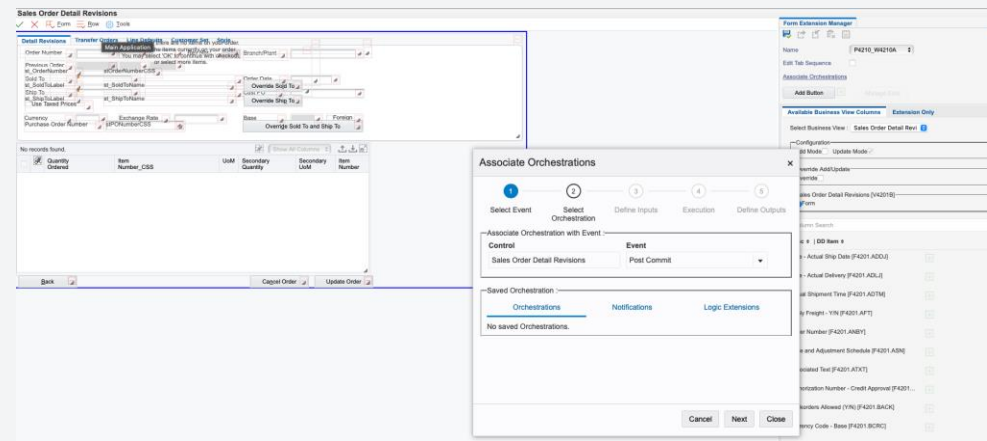
► Other Option w/o modifying P4210

- Using B984056 (SleepForSeconds)
- On the Post Even Clicked
 - Start Orchestration with a Custom Request step where you wait X seconds to give it time to complete the transaction.
 - Then have a RULE to check the tables to make sure the tables have been updated.
 - If the tables are updated, then you can call your process ORCH, if not go back to the Custom request to wait X seconds and loop until you confirm in the RULE the tables are ready for your ORCH.

Known Situations

➤ Post Commit Events (Doc ID 654755.1)

- When is a Post Commit event executed?
 - ✓ Transaction Processing (TP) is turned on at the form level
- Does the Post Commit event get called only after records are committed to the database?
 - The Post Commit event will be executed after the database commitment request had been performed (outside of the Transaction Processing boundary)
- How does an asynchronous Business Function call affect the Post Commit event?
 - ✓ Executing the Post Commit event Inline or Async thread will depend on the Business Function Asynch or Post Button Click - Asynch events. If no Business Function Asynch or Post Button Click - Asynch is executed, then the Post Commit event will be executed Inline.



Documentation

► Tools Release Compatibility

JDEdwards	OneWorld	EnterpriseOne							Release Date
Application Release	XE/ERP8	8.10	8.11	8.11 SP1	8.12	9.0	9.1	9.2	
Compatible Tools Release	SP23/24	X	X	X	X	X	X	X	
		8.93	X	X	X	X	X	X	
		8.94	8.94	X	X	X	X	X	
		8.95	8.95	8.95	X	X	X	X	
		8.9	8.96	8.96	8.96	X	X	X	
		8.97	8.97	8.97	8.97	X	X	X	
		8.98	8.98	8.98	8.98	8.98	X	X	
		8.98.1	8.98.1	8.98.1	8.98.1	8.98.1	X	X	
		X	8.98.2	8.98.2	8.98.2	8.98.2	X	X	
		X	8.98.3	8.98.3	8.98.3	8.98.3	X	X	
		X	x	8.98.4 (8.98.4.11 or earlier)	8.98.4 (8.98.4.11 or earlier)	8.98.4 (8.98.4.14 Terminal Release)	8.98.4 (8.98.4.14 Terminal Release)	X	
		X	X	X	X	9.1.0.0	9.1.0.0	X	
		X	X	X	X	9.1.2.0	9.1.2.0	X	
		X	X	X	X	9.1.3.0	9.1.3.0	X	
		X	X	X	X	9.1.4.0	9.1.4.0	X	
		X	X	X	X	9.1.5.0	9.1.5.0	X	
		X	X	X	X	9.2.0.x	9.2.0.x	9.2.0.x	10/06/2015
		X	X	X	X	9.2.1.x	9.2.1.x	9.2.1.x	11/14/2016
		X	X	X	X	9.2.2.x	9.2.2.x	9.2.2.x	10/13/2017
		X	X	X	X	X	9.2.3.x	9.2.3.x*	11/08/2018
		X	X	X	X	X	9.2.4.x	9.2.4.x*	11/06/2019
		X	X	X	X	X	X	9.2.5.x*	11/04/2020
		X	X	X	X	X	X	9.2.6.x** (Release 22)	10/12/2021
		X	X	X	X	X	X	9.2.7.x** (Release 23)	10/20/2022
		X	X	X	X	X	X	9.2.8.0** (Release 24)	11/18/2023
		X	X	X	X	X	X	9.2.8.1**	12/18/2023
		X	X	X	X	X	X	9.2.8.2**	05/02/2024
		X	X	X	X	X	X	9.2.8.3**	06/20/2024

October 1 – 3, 2024

** 64-bit only
* 64-bit option

Documentation

➡ Continuous Delivery

LEARNJDE

ApplicationsTools and TechnologyResources

Home > Orchestrator > Orchestrator Enhancements >

Continuous Delivery of Orchestrator and Notification Enhancements

The Orchestrator transforms how you use your entire JD Edwards system. Orchestrator automates the collection, processing, and exchange of data. There are many patterns for Orchestrator including automation, integration, notifications, and capturing data from IoT or other sources, all of which lead to automation. For more information about Orchestrator features, click the Tools Release below to access the Net Change guide or click on a specific topic to view the supporting content.

Orchestrator

202420232022202120202019201820172016

JD Edwards Release 24
June 2024
[All Enhancements](#)

User-Defined Name for a URL Attachment Created with the REST API or Orchestration Step
When you create a URL attachment using the AIS REST API or Orchestrator Attachment step, this feature enables you to assign a name to a URL attachment that is different than the path to the URL resource itself. For example, for a URL attachment to "https://mycompany.employee-portal.com," you might want the user to see it named as "Employee Portal."

Default the Appropriate Accept Type for Orchestration that Return Files
This feature simplifies the user interface in the Run Orchestration page in Orchestrator Studio by automatically setting the Accept Type to "application/octet-stream" when the orchestration is configured to return a file.

File Discovery for Orchestrator FTP Connector
This feature enhances the Orchestrator FTP connector with the ability to read the names of files in a given directory in an FTP site. In this way, orchestrations can automatically read and iterate over a list of files in a directory even if the file names change or are unknown at the time the orchestration

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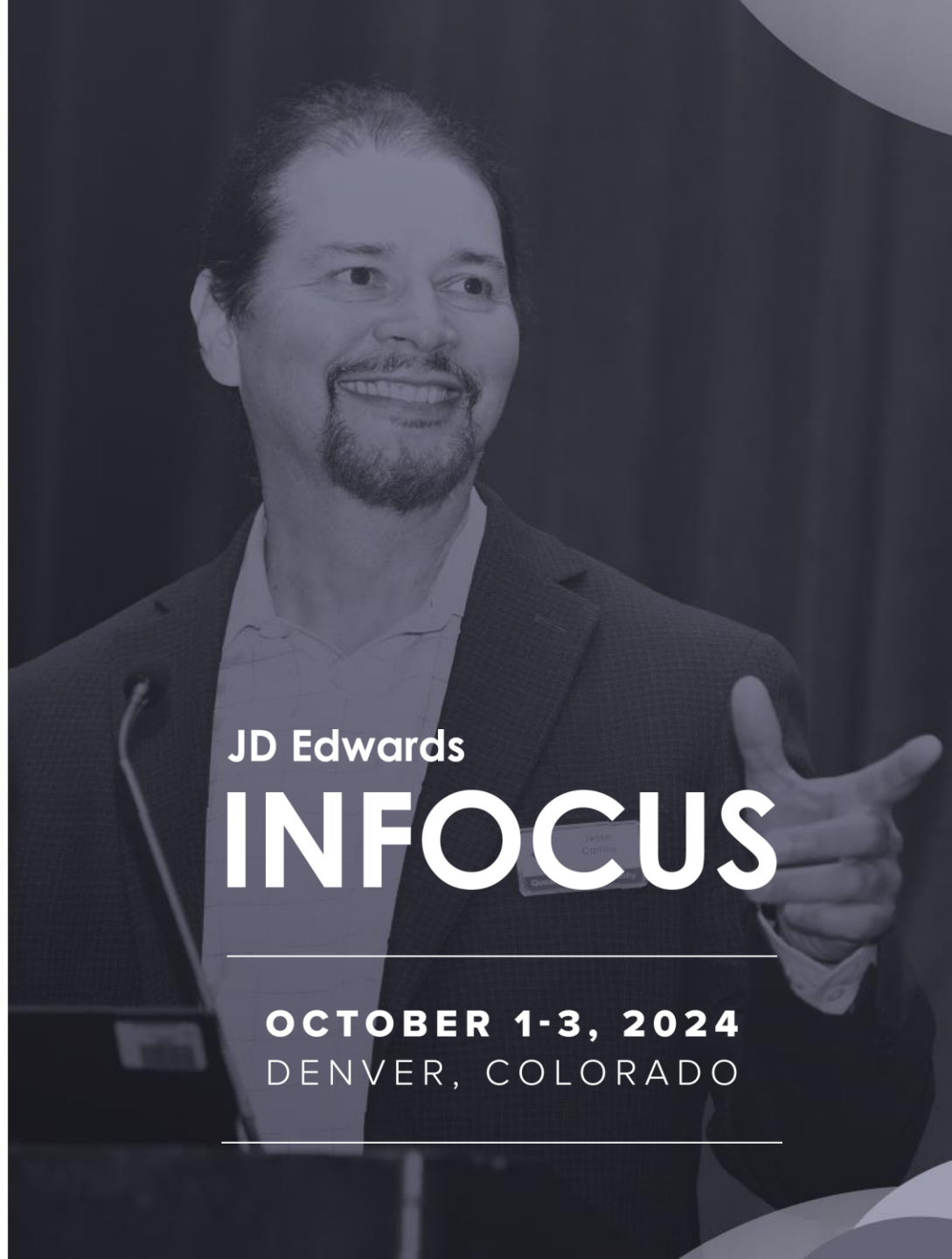


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