

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.

Program Agenda

- Digital Transformation
- Orchestrator Powers Digital Transformation
- New (and not so new) Features
- 4 Notifications
- But Wait...There's More

Disruption & Transformation

OFFER GREAT PRODUCTS
SUPERIOR SERVICE LEVEL
SOCIAL MOBILE RECRUITING
TALENT CRISIS
WORKFORCE ENGAGEMENT
SEGMENT OF ONE
PROCESS STANDARDIZATION

INTERNET-OF-THINGS MACHINE LEARNING CHATBOTS VIRTUAL IN-MEMORY REALITY BITCOIN AR CLOUD MACHINE LEARNING CHATBOTS VIRTUAL CHATBOTS



BUSINESS

REGULATORY COMPLIANCE
PLANNING, IFRS15 & ASC606
BUDGETING & FORECASTING

COST REDUCTION
PROFIT GLOBAL
INVENTORY MANAGEMENT
TRANSPORTATION
OF TOGSTICS WAREHOUSING

TECHNOLOGY

PREDICTIVE 3D PRINTING ANALYTICS
REAL TIME DATA
ARTIFICIAL SCIENCE
INTELLIGENCE GESTURE
COPEX
CAPEX
DATA
AUTONOMOUS DRIVING
ORONES SENSORY DATA

PREDICTIVE 3D PRINTING
REAL TIME DATA
ARTIFICIAL SCIENCE
OPEX
CAPEX
DATA
OPEX
SORVED
OPEX
CAPEX
DATA
OPEX
SORVED

COMPETITION

ROCKET MORTGAGE AND METROMILE ALLIANZ

AZIMO ELECTRIC CARS TESLA

AD PRINTING SELF-ASSEMBLY
CARBON
RETAIL
INSTACART
ZAPPOS



Technologies That Enable Digital Transformation





Digital Transformation Means Transforming JD Edwards Too

Digital Transformation:

- Mobile, IoT
- UX One, personalization
- Citizen Developer
- No-code integrations
- Light Touch
- Database In-Memory
- Cloud
- Orchestrator
- Notifications



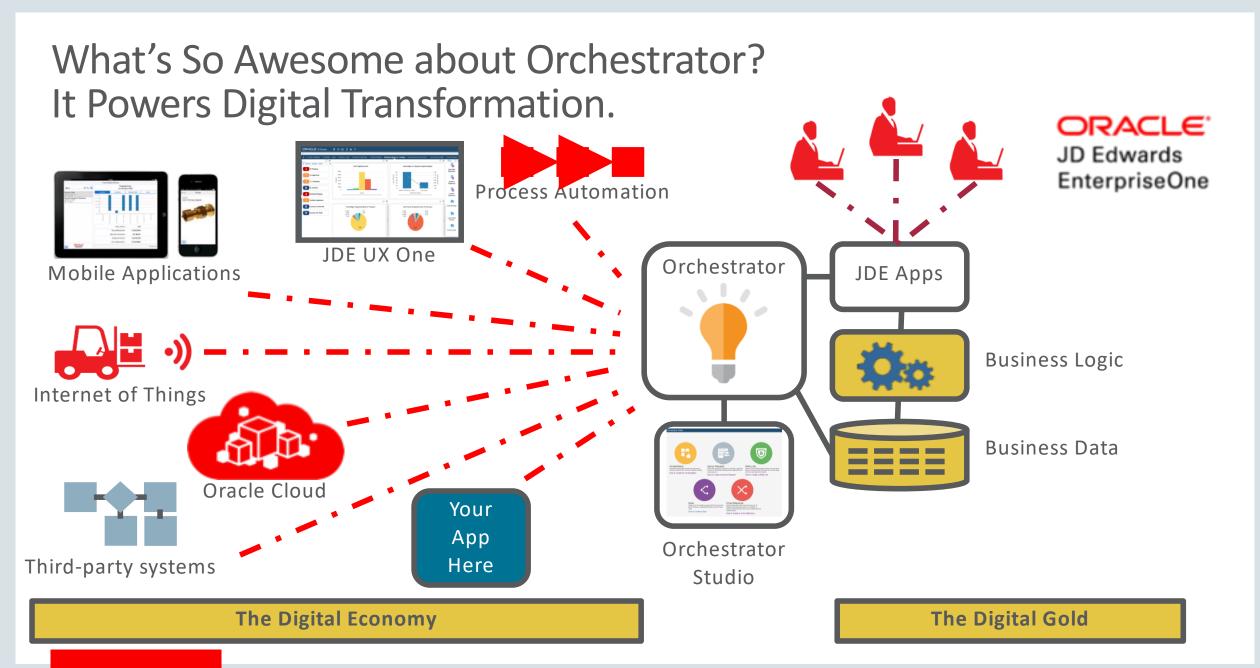
The Nonstop Pulse of Your Business





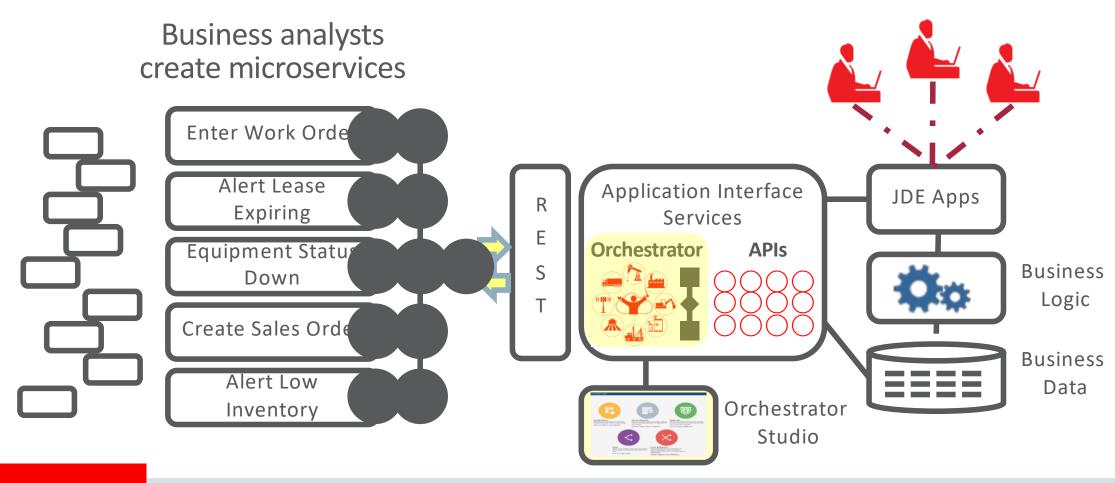
Digital Transformation with Orchestrator





Orchestrations Are (Micro)services







JD Edwards EnterpriseOne Orchestrator

New Features (and a Review of Key Features)

JD Edwards EnterpriseOne Orchestrator

Continuous Stream of Enhancements

Studio 1.0.0

New!

2015-3

2016-Q1

2016-Q3

2016-Q4

2017-Q2

2017-Q4

2018-Q2

Orchestrator

- Form service
- Rules
- White list
- Cross-reference
- Custom Java

- Studio 2.0.0
- Studio home page
- Transformations
- Where used
- Import/Export

- Studio 3.0.0
- Orchestration
 - UDOs

- Studio 5.0.1
- Data service
- AIS Version 2
- Output format
- Message service
- Outbound REST
- Groovy
- Nested orchestrations

- Studio 6.0.2
- OAuth 2.0 outbound
- Iterate over steps
- Database connector
- Watchlist as a step

- Studio 6.1.0
- Process Recorder
- Report as a Step
- File Transfer
- Confirmed Completions
- Studio Enhancements
- Resilient Scheduler

Notifications

Notifications

Assigned Subscriptions

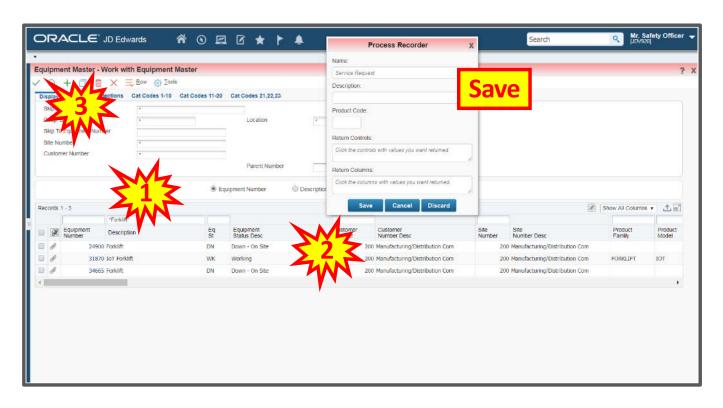
Resilient Scheduler

Visit LearnJDE.com for details



Form Service Using Process Recorder

Record a Process. Automatically Invoke any JD Edwards Application Forms.



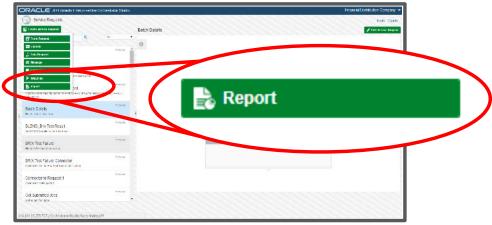
- 1. Open a JDE application.
- 2. Start the Process Recorder.
- 3. Save the form service.
- 4. Use the form service in an orchestration.
- 5. REST call to invoke the orchestration



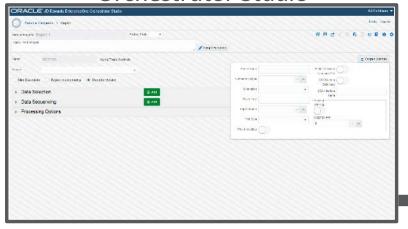
Report Service

Report as an Orchestration Step

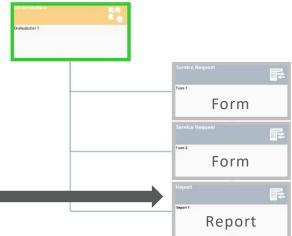




Orchestrator Studio



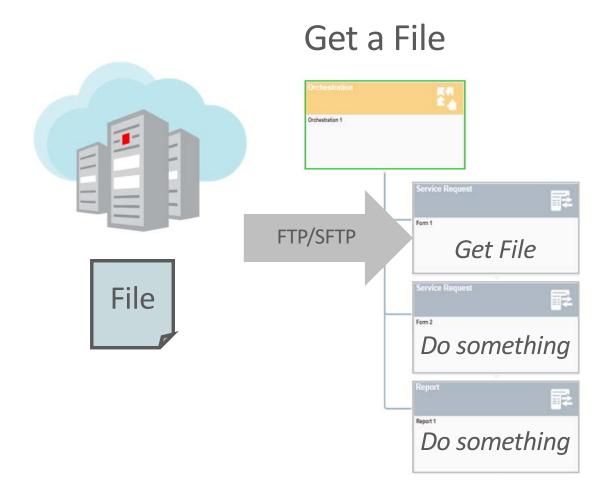
Orchestration: Print Report

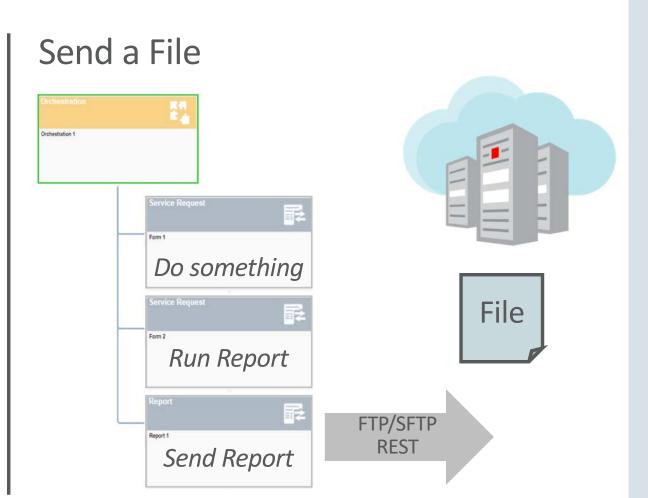


- Data Selection
- Data Sequencing
- Processing Options
- Output Options

15

File Transfer







Confirmed Completion of Orchestrations

Why?

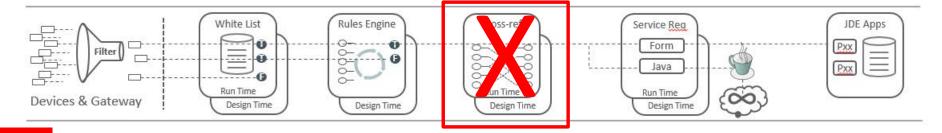
To provide a record of an orchestration that did not complete.

What?

A log file written to AIS server

Types of Errors Recorded:

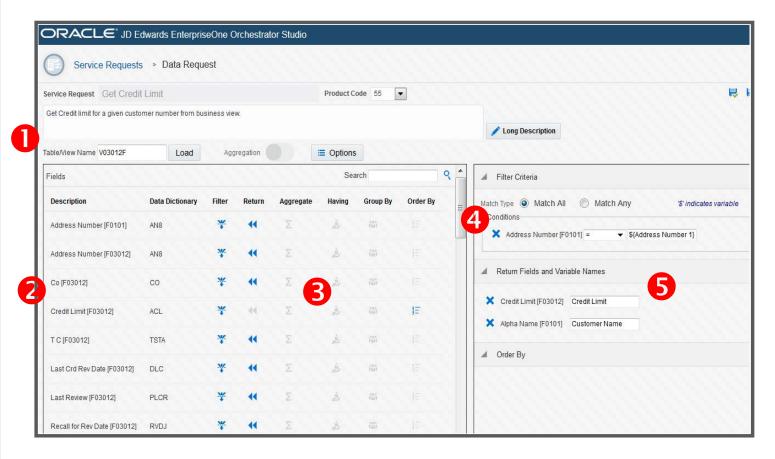
- JSON payload parse failure
- Invalid orchestration inputs
- Any non 200 status response from HTML server (includes connection and security failures)
- Any non 200 status response from external REST calls
- Failure to find or access orchestration components
- Invalid FSR/DS/XREF request (failed to execute at all)
- Failure to find XREF or Whitelist when orchestration is aborted
- Failure to connect to an external database
- Any exception from a groovy script
- Warnings and errors returned in form service responses



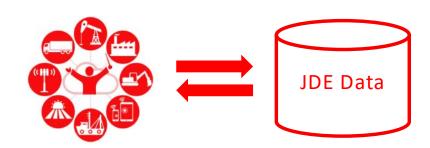


Data Request as an Orchestration Step

Access and Aggregate Data from JD Edwards EnterpriseOne Tables and Views



- 1. Load a JDE table or business view
- 2. Choose the fields you need
- 3. Optionally perform aggregations
- 4. Filter the data using criteria
- 5. Assign variable names for use in subsequent orchestration steps

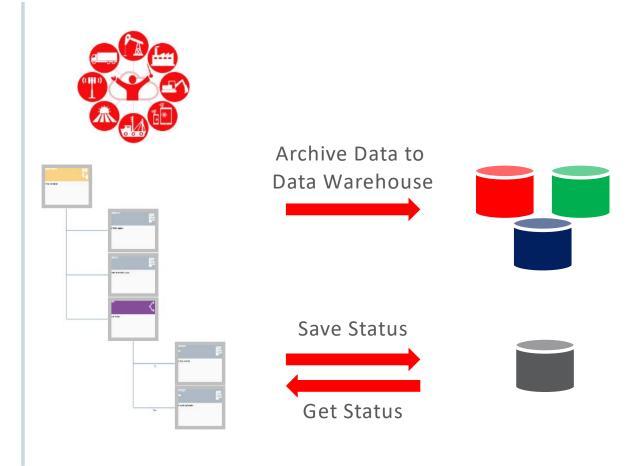




Database Connector – Call any SQL Database

Read from or write to any Non-JDE Database

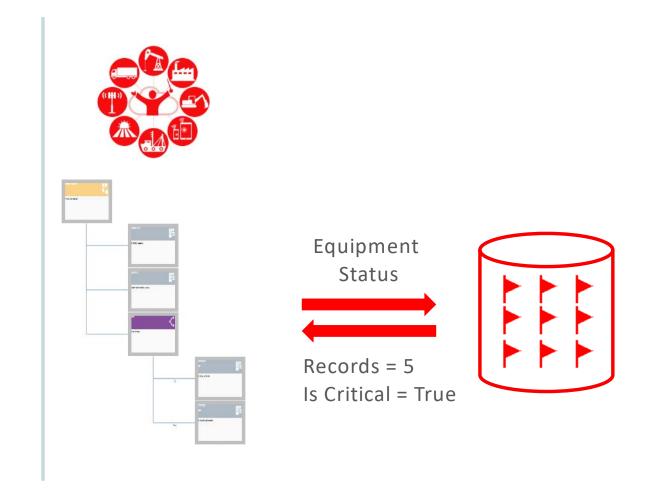
- For data that does not "belong" as part of JDE transaction tables
- Use soft coding to specify external database connection, driver, and security
- Use Orchestrator Studio UI for soft coding configuration
- Read from and write to any SQL database using JDBC and Groovy scripting



One View Watchlists as Orchestration Steps

Retrieve data from Watchlists

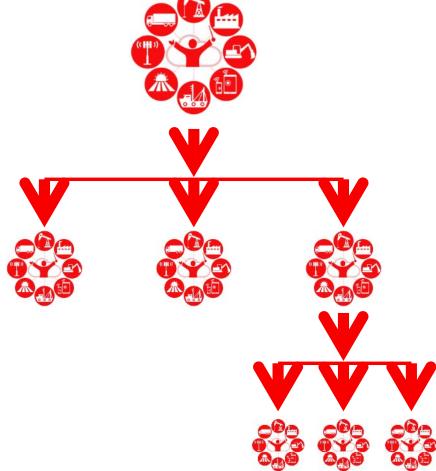
- Watchlist Name
- Number of Records
- Is Critical, Is Warning
- Critical Threshold, Warning Threshold
- Description, Object Name
- Form ID, Form Title
- Query Name, Query Object Name
- Last Run Time



Orchestrations Can Call Other Orchestrations

Call Your Own Orchestrations ... Or Someone Else's

- Can call local orchestrations from another orchestration without any configuration
- Use soft coding to specify external Orchestrator compliant end points
- For security reasons, calls are executed from the HTML server instance NOT the AIS instance.

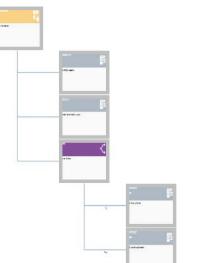


Connector – Call any RESTful endpoint

Call the Weather Service – or anything else you want

- Can call any REST endpoint
- Use Soft coding to specify external compliant endpoints
- Use Orchestrator Studio UI for soft coding configuration
- Supports Basic Authentication and OAuth 2.0
- Allows configuration of a proxy if required
- Allows custom HTTP headers to be added if required
- All fields can be encrypted just like the normal soft coding record











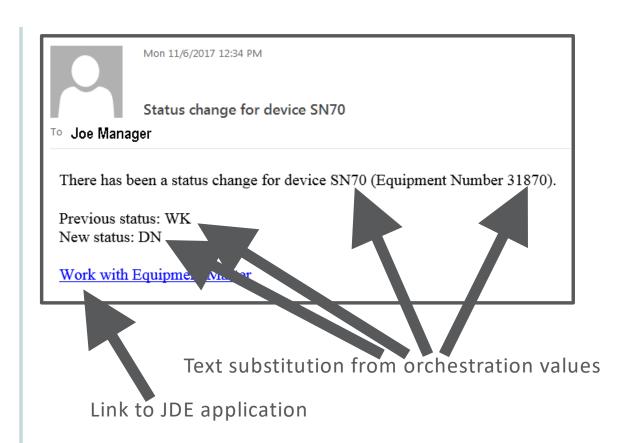
Get Weather Forecast





Send Message Service

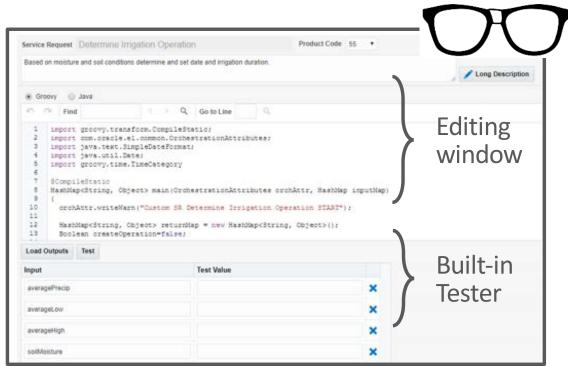
- Ability to send messages (Email / SMS) via AIS
- Uses JDE Send Message system function
- Sends messages to the Work Center if there is no default messaging contact set up in Email / Internet options from Who's Who
- Send To:, Cc:, and Bcc:
 - Address Book Number
 - Contact (Who's Who line from Address Book)
 - Group Distribution List
 - SMTP e-mail address(es)
- Attach:
 - Subject & Message
 - Text substitution
 - Shortcut to a JDE application (with data structure)
 - Message from data dictionary



Apache Groovy Support

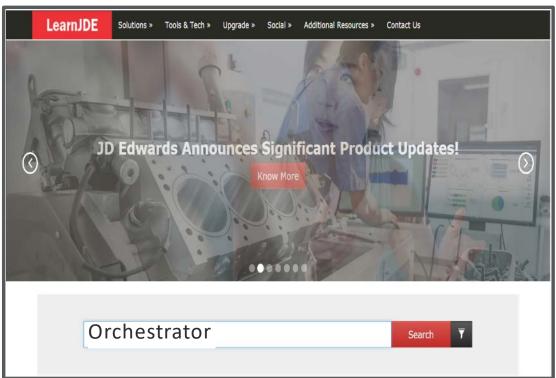
Need even more awesome in your orchestration?

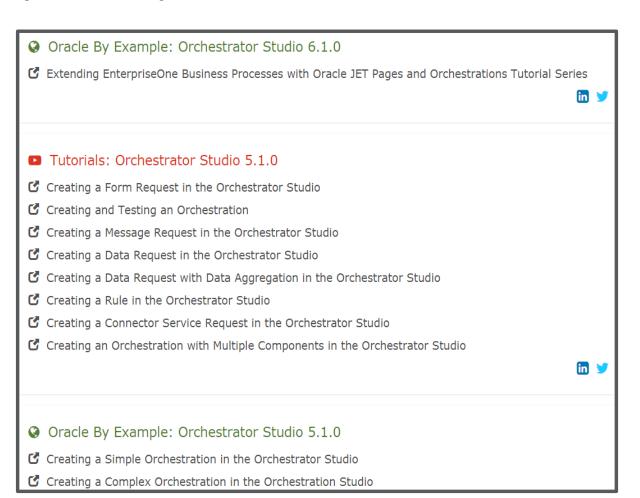
- Take your orchestrations to the next step with Groovy scripting embedded in your orchestration
- Supports multiple touch points within an orchestration
 - Custom service request
 - Custom rule
 - Output manipulation
- Direct integration with the logging system for ease of debugging and warnings
- Takes inputs and creates output just like any other Service Request Step or Rule



Update Samples and Oracle by Example

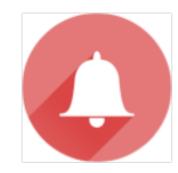
A library of Oracle-by-Example and recorded tutorials for basic and intermediate Orchestrator and Notification capabilities.





www.LearnJDE.com





JD Edwards EnterpriseOne Notifications

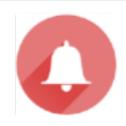
Stay in touch with your business and your ERP whether you are at your desk or on the go







Types of Notifications



Exception

Accountant is notified about journal entries that are out of balance

Action Required!

Credit manager is notified that an order for a key customer is on hold

Informational

Customer service manager is notified when a key customer's order has shipped

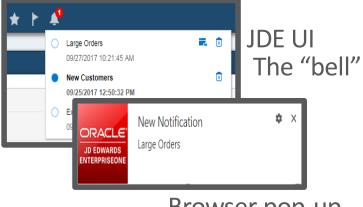
Proactive

Inventory manager is notified when inventory levels are approaching defined limits



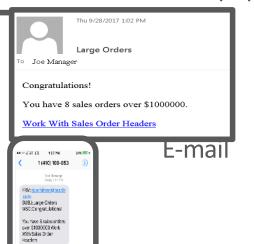
Reminder

Manager is reminded of expense reports to be approved



Browser pop-up

SMS Text message





JD Edwards EnterpriseOne: ERP with a Pulse



But wait...there's more

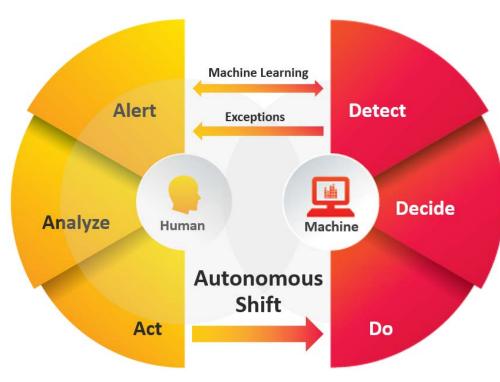
The path to Autonomous ERP



Autonomous ERP

People Work Less

- Management by exception
- Proactive notifications
- Streamlined actions
- High value task



Machines Work More

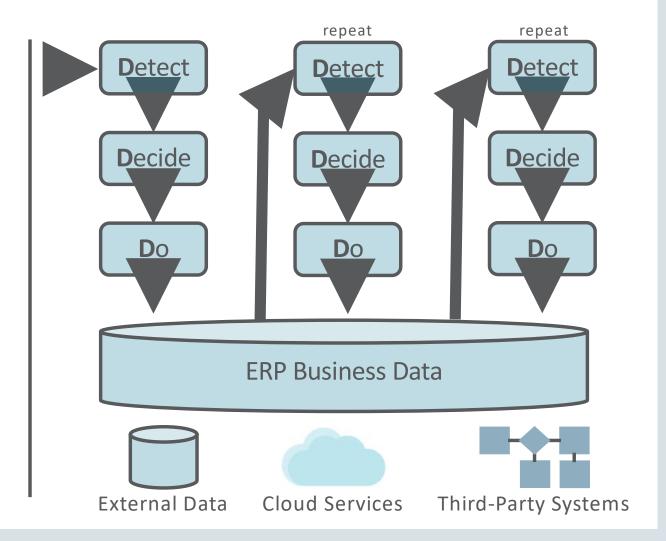
- Condition/Rule-based actions
- Real-time evaluation
- Machine Learning



Humans: Alert \rightarrow Analyze \rightarrow Act

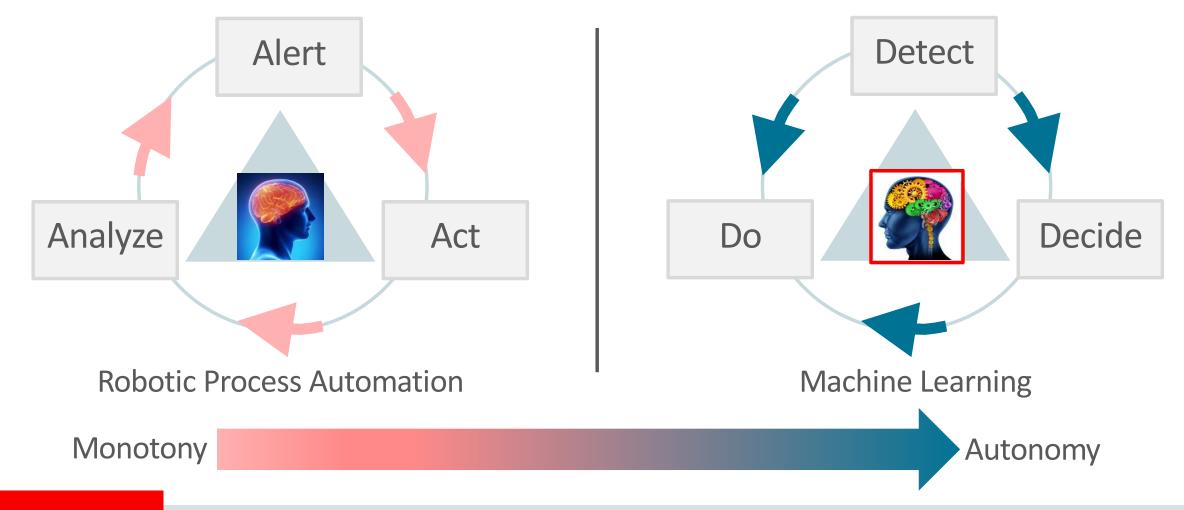
Analyze Alert Act Matches Warning Critical & 6 Total Weight by Carrier Load Weight vs. Volume by Shipment Depot 3 TL Pending Work With TL Approved TL Confirmed TL On Hold Eastern Distribution C... Fuel Depot Carrier Shipment Depot Contract Pending idated: 3/12/2018 14:27:13 Last updated: 3/12/2018 14:27:16 *** Contract Approved (2) E (i) (ii) Load Building Contract Confirmed Total Weight Shipped by Mode of Transport Total Volume Shipped by Mode of Transport Contract On Hold Load Tender Confirm Load iodated: 3/12/2018 14:27:13 Last updated: 3/12/2018 14:27:13 * 20

Autonomous Systems: Detect \rightarrow Decide \rightarrow Do

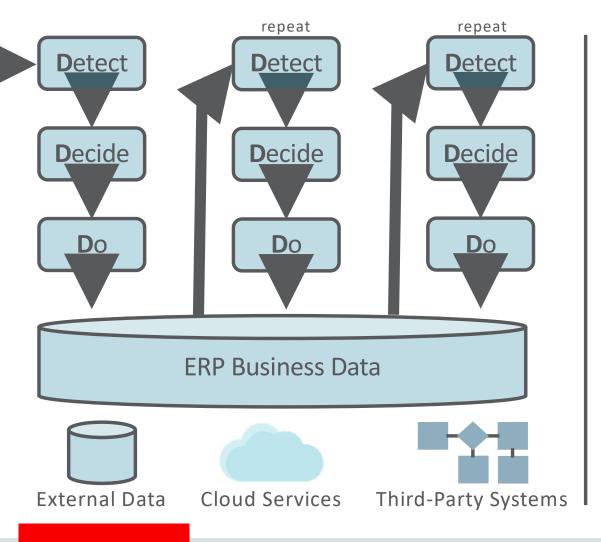




Harmonizing Humans and Bots

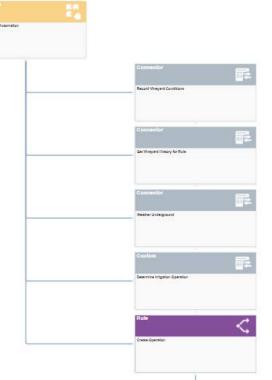


Autonomous Systems: Detect → Decide → Do



Orchestrations: Detect → Decide → Do

Vineyard Irrigation Automaton



Detect: Soil moisture

Detect: Rain forecast

Detect: Temp forecast

Decide: Irrigate?

Do: Create JDE transaction

Do: Start irrigation system

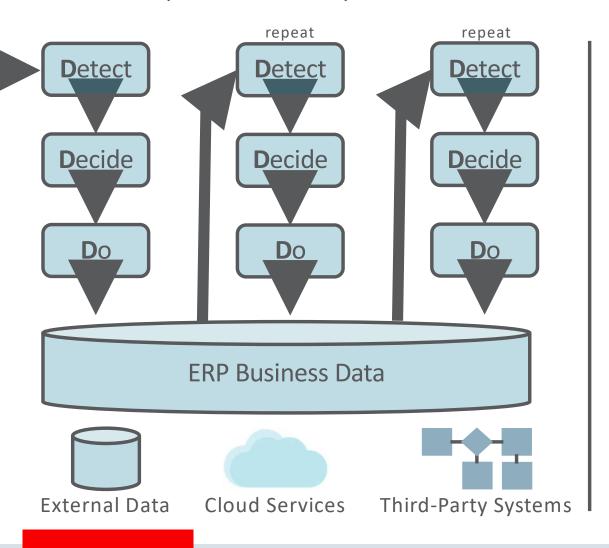
Detect: End of irrigation

Do: Update JDE transaction



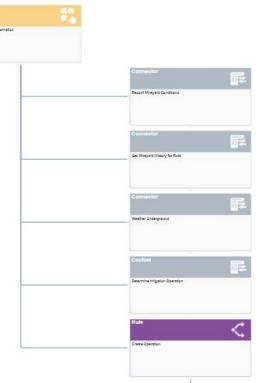


Autonomous Systems: Detect → Decide → Do



Orchestrations: Detect → Decide → Do

Inventory Replenishment Automaton



Detect: Low inventory

Detect: Low market price

Detect: Blanket order open

Decide: Order inventory?

Do: Create purchase order

Do: Submit purchase order

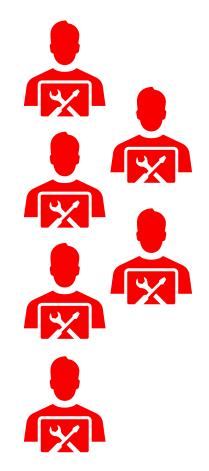
Detect: Inventory received

Do: Update inventory





JD Edwards EnterpriseOne: ERP with an Autonomous Pulse







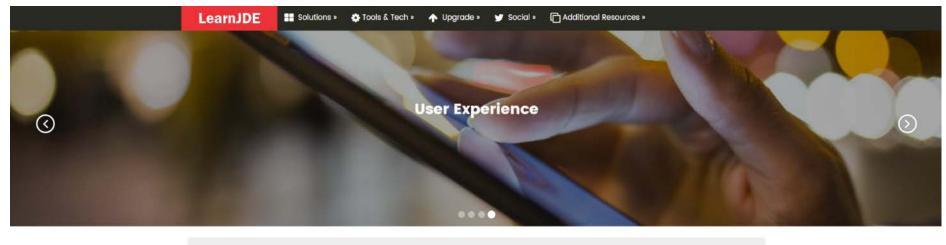


Master-minds

LearnJDE – All JD Edwards, All the Time

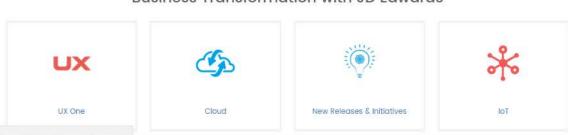
- Quick Tour
- Tutorials
- Oracle-by-Example

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Business Transformation with JD Edwards





Establishing secure connection.

Integrated Cloud

Applications & Platform Services