

ORACLE

In Your Wildest Imagination

Orchestrator Usage Patterns that Will Challenge Your Definition of ERP

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Oracle JD Edwards

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If you prefer, you can listen to this session recording on the Quest Oracle Community Website:

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definition-of-erp/](https://questoraclecommunity.org/learn/videos/in-your-wildest-<u>imagination-orchestrator-usage-patterns-that-will-challenge-your-definition-of-erp/</u>)

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What Is Your Image of ERP?



What Is Your Image of ERP?



What Is Your Image of ERP?

Inventory



Demand Forecast



Planning



Safety Stock



Back Orders



Period Close



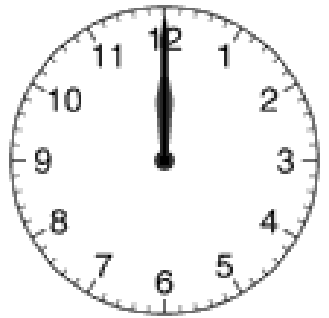
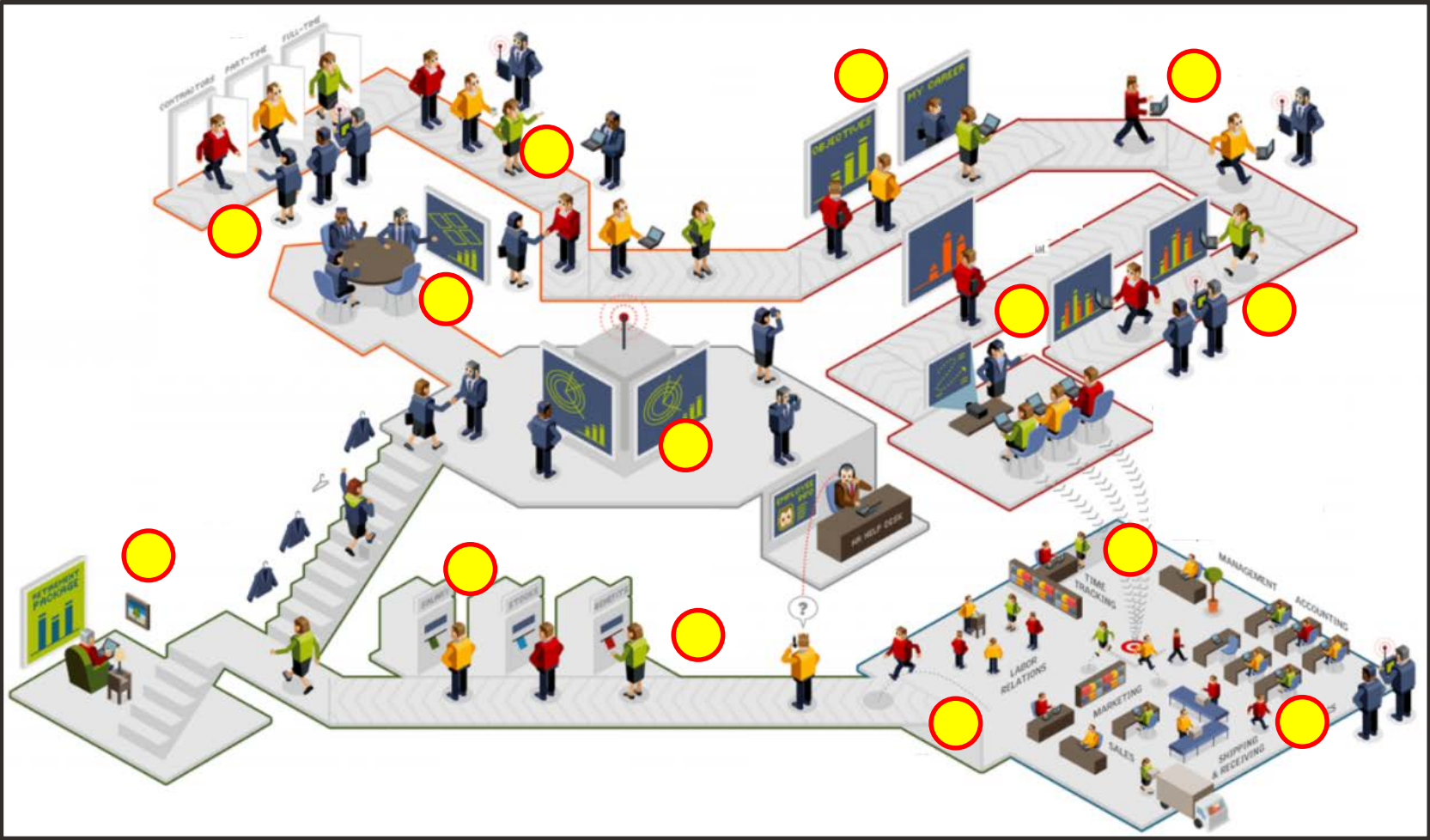
Harvest



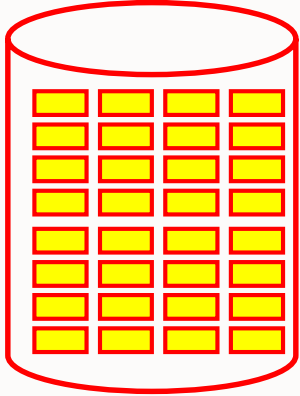
The Metabolism of an Enterprise



The Metabolism of an Enterprise – Captured as ERP Data



ORACLE®
JD Edwards
EnterpriseOne



What Is Your Image of ERP?



Human Users

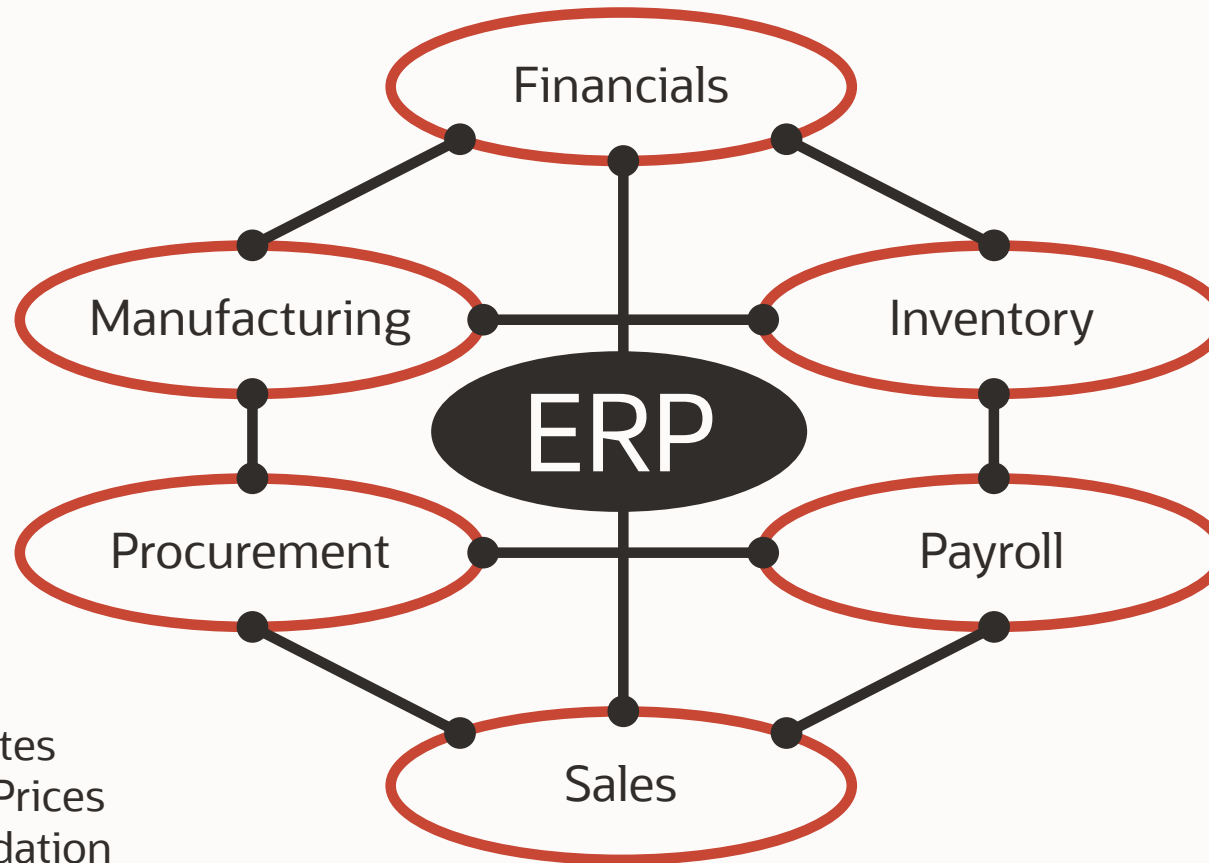


Nonhuman Users



Web Services

- Exchange Rates
- Commodity Prices
- Address Validation



Sales



Field Service



Configure Price Quote



Human Resources





“Digital
Transformation”
is not
using your digits to
type faster.

**Do more work. Use less energy.
(It's green.)**

$$W = Fd\cos\theta$$

Work

I have a lot of *work* to do.

The *work* just keeps piling up.

I have to get back to *work* now.

Yes, yes, I'm *working* on it.

I'm *working* from home.

Work Force

Work **≠** Energy

Business Process: Manage Assets

- Equipment Number
- Description
- Site Number
- Serial Number
- Product Model
- Product Family
- Status
- Location



Work: On-board Equipment



Equipment Master Revisions

Equipment Number: 2233456 | IoT Forklift

Site Number: 200 | Manufacturing/Distribution Com

Customer Number: 200 | Manufacturing/Distribution Com

Equipment Status: SB Standby

Serial Number: SN70

Product Model: IOT | Product Family: FORKLIFT

	A	B	C	D	E	F
1	Equipment Number	Description	Site Number	Serial Number	Product Model	Product Family
2	31871	IoT Forklift	200	SN71	IOT	FORKLIFT
3	31872	IoT Forklift	200	SN72	IOT	FORKLIFT
4	31873	IoT Forklift	200	SN73	IOT	FORKLIFT
5	31874	IoT Forklift	200	SN74	IOT	FORKLIFT
6	31875	IoT Forklift	200	SN75	IOT	FORKLIFT

Description

Equipment Number

Site Number

Customer Number

Serial Number

Model and Family

Status

Input



Demo: Orchestration to Load New Equipment from Data in CSV File

Equipment Master - Work with Equipment Master

Query: 'IoT Forklifts'

Records 1 - 1

Serial Number	Equipment Number	Description	Eq St	Equipment Status Desc	Site Number	Site Number Desc	Product Model	Product Family
SN70	31870	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT

Equipment Master - Work with Equipment Master

Query: 'IoT Forklifts'

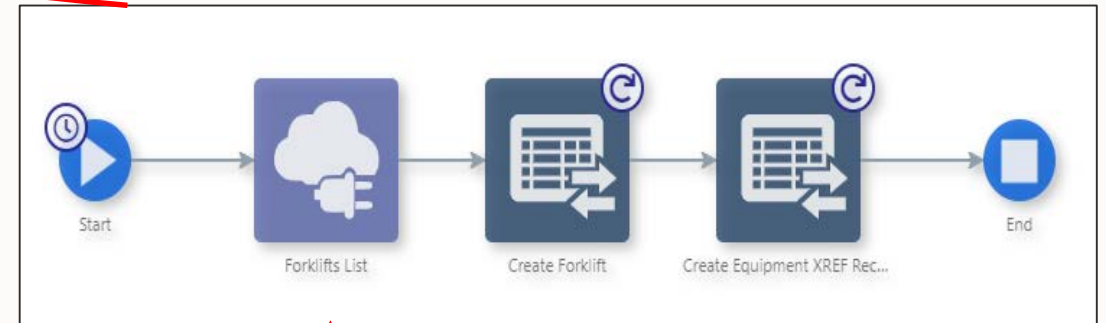
Records 1 - 6

Serial Number	Equipment Number	Description	Eq St	Equipment Status Desc	Site Number	Site Number Desc	Product Model	Product Family
SN70	31870	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT
SN71	31871	IoT Forklift	S8	Standby	200	Manufacturing/Distribution Com	IOT	FORKLIFT
SN72	31872	IoT Forklift	S8	Standby	200	Manufacturing/Distribution Com	IOT	FORKLIFT
SN73	31873	IoT Forklift	S8	Standby	200	Manufacturing/Distribution Com	IOT	FORKLIFT
SN74	31874	IoT Forklift	S8	Standby	200	Manufacturing/Distribution Com	IOT	FORKLIFT
SN75	31875	IoT Forklift	S8	Standby	200	Manufacturing/Distribution Com	IOT	FORKLIFT

Spreadsheet data for 5 new forklifts

A	B	C	D	E	F
Equipment Number	Description	Site Number	Serial Number	Product Model	Product Family
31871	IoT Forklift	200	SN71	IOT	FORKLIFT
31872	IoT Forklift	200	SN72	IOT	FORKLIFT
31873	IoT Forklift	200	SN73	IOT	FORKLIFT
31874	IoT Forklift	200	SN74	IOT	FORKLIFT
31875	IoT Forklift	200	SN75	IOT	FORKLIFT

Orchestration to create 5 new forklifts



Demo: Orchestrator Studio - Scheduler

ORACLE JD Edwards EnterpriseOne Orchestrator Studio

Home > Scheduler

Scheduler uptime (d:h:m) 0:22:52

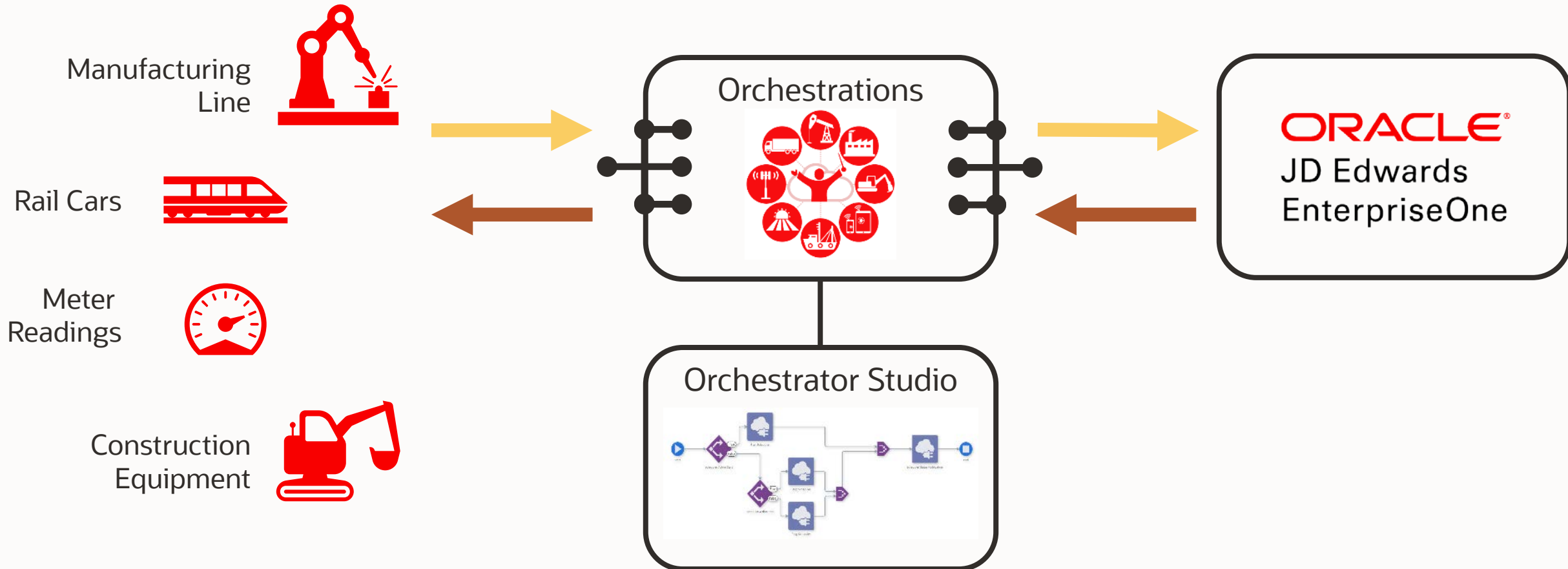
Started	Type	Prod Cd	Notification/Orchestration Name	Autostart	Schedule Name	User	Environment	Role	
<input type="checkbox"/>			55	Active Incidents in Your Region		Weekdays at 6 am	AJ	JPS920	*ALL
<input type="checkbox"/>			55	Alert every 5 minutes		Every 5 Minutes	AJ	JPS920	*ALL
<input type="checkbox"/>			55	Create Forklifts Many from CSV		Weekdays at 6 am	AJ	JPS920	*ALL
<input type="checkbox"/>			55	Currency Exchange Rate		Weekdays at 6 am	AJ	JPS920	*ALL
<input type="checkbox"/>			55	JDE_NOTIFY_BuyerShortage		JDE_Schedule_8_AM	AJ	JPS920	*ALL
<input type="checkbox"/>			55	JDE_NOTIFY_PlannerShortage		JDE_Schedule_8_AM	AJ	JPS920	*ALL
<input type="checkbox"/>			55	JDE_ORCH_CreatePartsListShortagesParent		JDE_Schedule_15_Minutes	AJ	JPS920	*ALL
<input type="checkbox"/>			55	JDE_ORCH_RemoveOrderItemShortage		JDE_Schedule_15_Minutes	AJ	JPS920	*ALL
<input type="checkbox"/>			55	Low Inventory		Weekdays at 6 am	AJ	JPS920	*ALL

Schedule orchestrations and notifications with a simple switch.



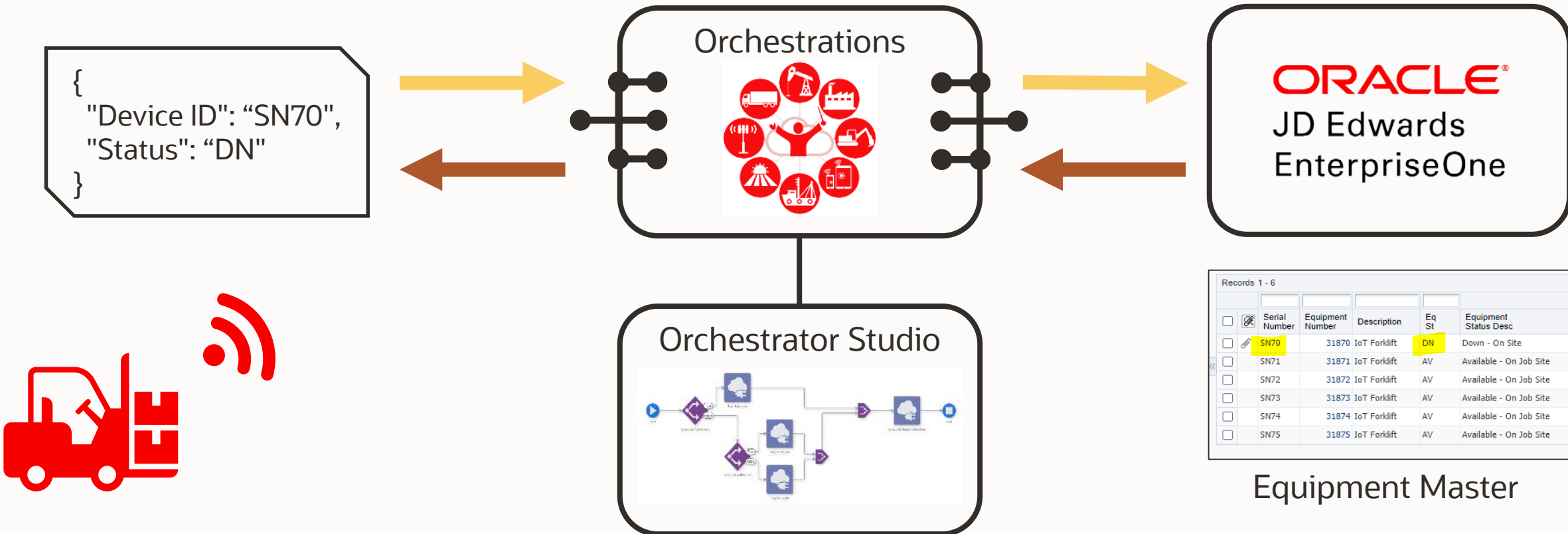
Let the Data Collect Itself

JD Edwards users don't have to be people



Demo: The Connected Forklift

Orchestration to update equipment status



Demo: Equipment Status Update Notification

The screenshot displays the Oracle JD Edwards user interface. At the top, the header includes the Oracle logo and 'JD Edwards' text. A notification bell icon in the top right corner shows a count of 15. Below the header, the main content area is divided into several sections. On the left, there is a 'Watchlists' section titled 'AJ's Watchlists' with tabs for 'All', 'Matches', 'Warning', and 'Critical'. It contains four summary cards: '1 IoT Forklifts All', '1 IoT Forklifts Available', '0 IoT Forklifts Working', and '1 IoT Forklifts Down'. In the center, a 'Notification List' is visible with a search bar and a count of 15 unread notifications. On the right, a notification is expanded, showing the title 'Status change for device SN70' and the timestamp '09/04/2020 12:20:32'. The notification text reads: 'There has been a status change for device SN70 (Equipment Number 31870). Previous status: AV New status: DN'. Below the text are several links: 'View Equipment Details for 31870', 'Condition-Based Alerts', 'Learn how to create Notifications on LearnJDE', 'Update Status to AV', and 'Equipment Message Log'. The notification also includes an 'Actions' dropdown menu and a trash icon.



Demo: The Connected Forklift

Orchestration to get latitude and longitude for each forklift

Equipment Master - Work with Equipment Master Personal Form: (No Personalization) Layout: (No Layout)

✓ 🔍 + 📄 🗑️ ✕ ⋮ Row ⚙️ Tools

Display Additional Selections Cat Codes 1-10 Cat Codes 11-20 Cat Codes 21,22,23

Skip to Description *
Resp. Business Unit * Location *
Skip To Equipment Number
Site Number *
Customer Number *
Set to Available Parent Number Load New Equipment Get Location Check for Rain Reset Forecast

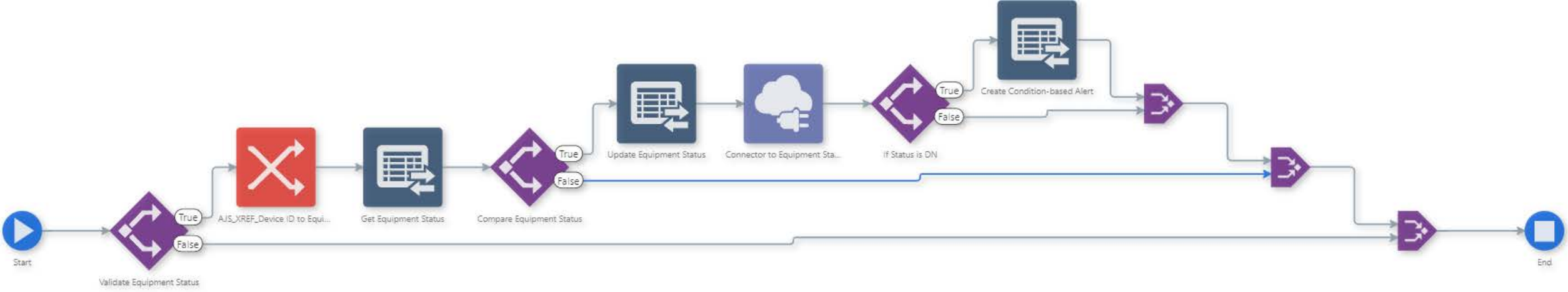
Sequence Grid By Equipment Number Description User Defined

Records 1 - 6 Equipment Location

	Serial Number	Equipment Number	Description	Eq St	Equipment Status Desc	Site Number	Site Number Desc	Product Model	Product Family	State	Latitude	Longitude	
<input type="checkbox"/>		SN70	31870	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	CO	39.739235	-104.990250
<input type="checkbox"/>		SN71	31871	IoT Forklift	WK	Working	200	Manufacturing/Distribution Com	IOT	FORKLIFT	FL	25.761681	-80.191788
<input type="checkbox"/>		SN72	31872	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	CA	37.774929	-122.419418
<input type="checkbox"/>		SN73	31873	IoT Forklift	WK	Working	200	Manufacturing/Distribution Com	IOT	FORKLIFT	NY	40.712776	-74.005974
<input type="checkbox"/>		SN74	31874	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	IL	41.878113	-87.629799
<input type="checkbox"/>		SN75	31875	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	WA	47.606209	-122.332069



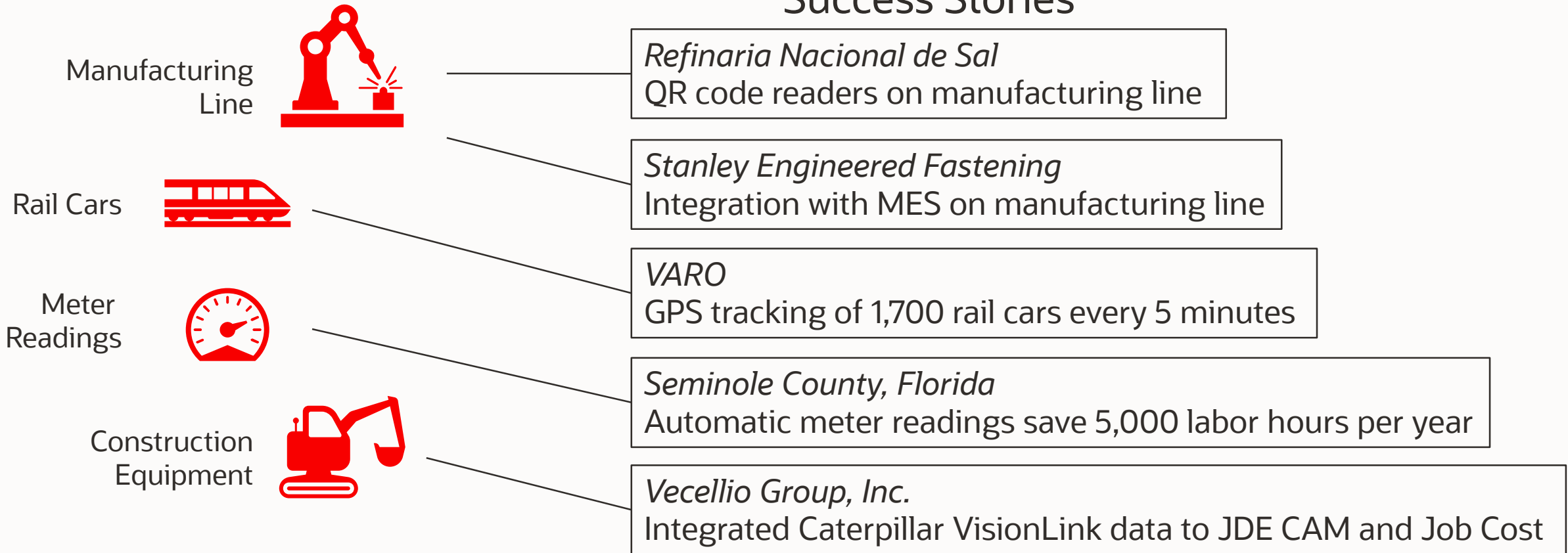
Demo: Update Equipment Status



Let the Data Collect Itself



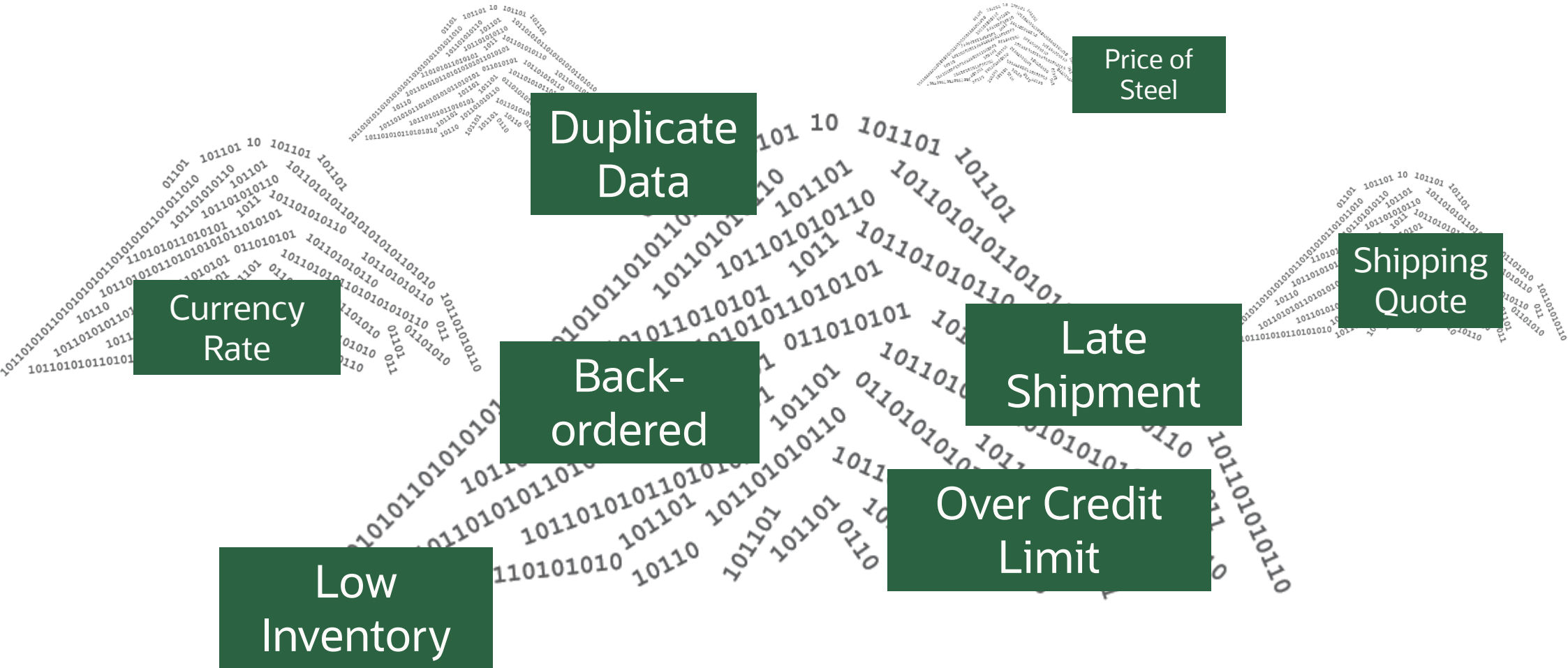
Success Stories



Let the Data Come to You



Needles in the Haystacks



Well, this is one way to get data out of the system

```
SELECT T0.ZGAVID, T0.ZGAI, T0.ZGAN8, T0.ZGCO, T0.ZGDTI,  
T0.ZGRMK, T1.ABAN8, T1.ABALPH, T1.ABAC21, T1.ABAC22,  
T1.ABAC23, T1.ABAC24, T1.ABAC25, T1.ABAC26, T1.ABAC27,  
T1.ABAC28, T1.ABAC29, T1.ABAC30 FROM PS920DTA.F03B31  
T0,PS920DTA.F0101 T1 WHERE ( ( T1.ABAN8 > :KEY1 AND  
T0.ZGDTI < :KEY2 AND T0.ZGCO = :KEY3 ) ) AND ( T1.ABAN8 =  
T0.ZGAN8 ) ORDER BY T0.ZGAN8 ASC,T0.ZGCO ASC,T0.ZGDTI DESC
```

We can...

Saved Queries

Query by Example

One View Watchlists

Address Book - Work With Addresses

Alpha Name: Search Type: Display Phone Display Address

Records 1 - 10

Address Number	Alpha Name	Language	Long Address	Industry Class	Sch Typ	Tax ID
500	Gas StationA			7000	C	
505	Consignment Agent			5200	C	
700	Gas Station - COP			7000	C	
705	Consignment Agent - COP			5200	C	
1288	Hardware Supplies				C	
3001	Global Enterprises			7000	C	
3002	Atlantic Corporation			7000	C	
3003	CSC Corporation			7000	C	
3004	Pacific Company			7000	C	
3005	Technology Systems			7000	C	

Query Manager

Name: All Customers

Set As Default:

Run When Selected:

Clear Form When Selected:

Conditions: Match All (selected) Match Any

Search Type: equal

Additional Fields Selection

One View Watchlists

- 0 Account Ledger Errors
- 4 Credit Limit Exceeded
- 7 Pending Receipt Batches
- 97 Parcel Pending
- 6 Unposted JE Batches

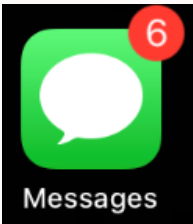


Notifications...let the data come to you

All Unread	
SUBJECT	RECEIVED
Upcoming appointment: Annual performance review	Fri 6/5/2020 11:02 PM
Low Inventory Alert for Item 2001 at Branch 30	Fri 6/5/2020 11:01 PM
Low Inventory Alert for Item 2001 at Branch M30	Fri 6/5/2020 11:01 PM
Equipment Down: 7	Fri 6/5/2020 11:01 PM
Credit Alert for Customer 500	Fri 6/5/2020 11:00 PM
There are 6 active incidents in your region.	Fri 6/5/2020 11:00 PM
Equipment at Standby	Mon 6/1/2020 11:28 AM

Message Center

E-Mail



Mobile

Message Center

Notification List 4 Work Center 1 Close

Search Sorted By: Subscription ⬇ ⬆

All Unread Show In Groups ✖

- ▲ Active Incidents in Your Region 1 🗑

There are 4 active incidents in your region.
West Region
06/05/2020 20:42:51
- ▲ Bring an Umbrella 1 🗑

Mostly Sunny then Slight Chance Showers And Thunderstorms in Denver
06/03/2020 10:14:40
- ▲ Credit Limit Exceeded 1 🗑

Over Credit Limit
06/04/2020 22:58:55
- ▲ Currency Exchange Rate 1 🗑

Today's Rate: 1 USD = 0.8826125331 EUR
USD to EUR
06/05/2020 20:38:17
- ▲ Equipment Status Notification 1 🗑

Status change for device SN75
06/04/2020 22:42:51
- ▶ Scheduler Status 1 🗑

🔄 6 Notifications



Demo: Notifications

The screenshot displays a notification management interface. At the top, there are two tabs: "Notification List" with a red badge showing "23" and "Work Center" with a red badge showing "1". Below the tabs is a search bar and a "Sorted By" dropdown menu set to "Subscription". There are also icons for a refresh, a filter, and a "Show In Groups" checkbox which is checked. The main area contains a list of notification categories, each with a right-pointing arrow, a count, and a trash icon. At the bottom, there is a footer bar with a refresh icon, an envelope icon, and the text "27 Notifications".

Notification Category	Count
Active Incidents in Your Region	4
Bring an Umbrella	1
Credit Limit Exceeded	1
Currency Exchange Rate	2
Customer Credit Alert	6
Equipment Status Notification	9
Low Inventory	3
Scheduler Status	1



Think Globally. Act Locally.
Let JDE Be a citizen of the world (wide web).

Connect JD Edwards to On-premise, Cloud, or any REST API Systems

Web Services

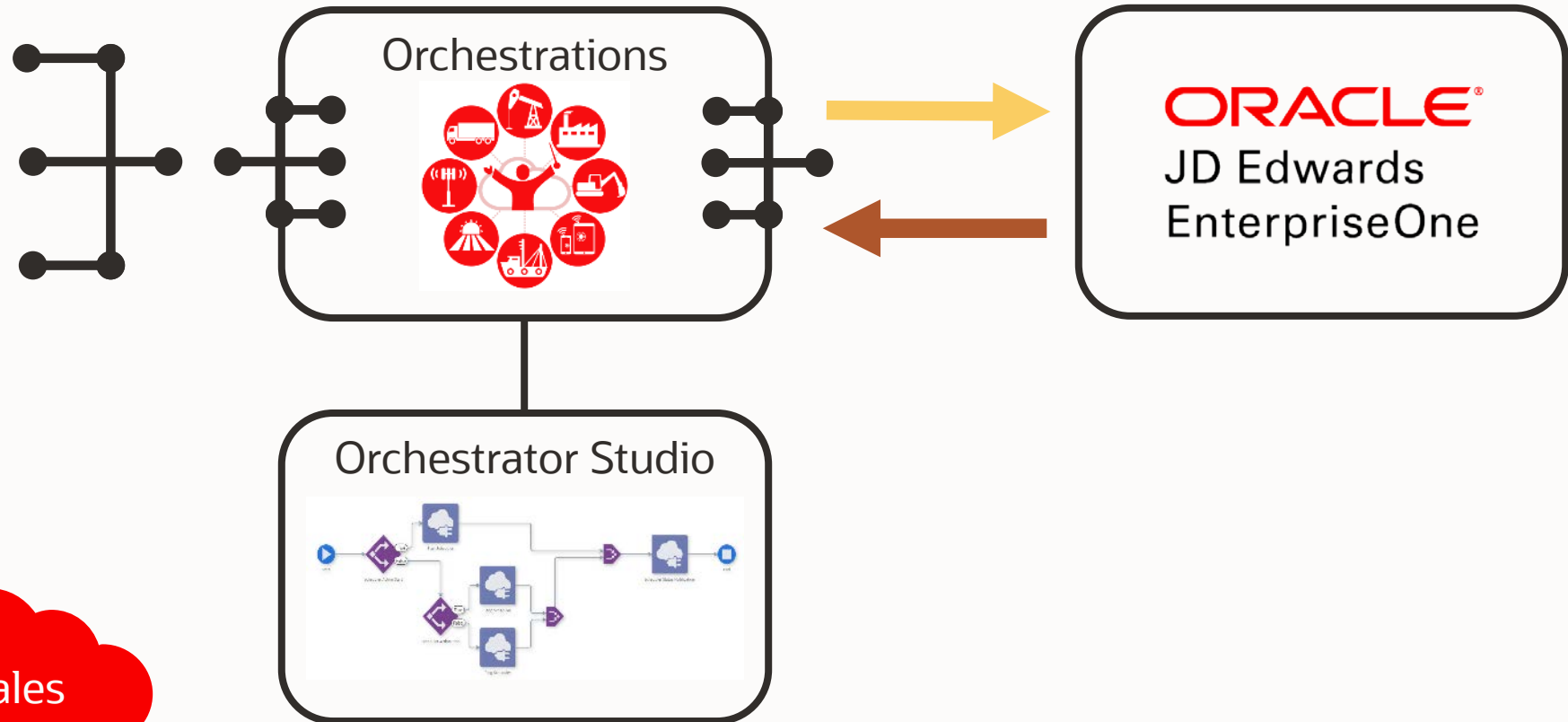


- Exchange Rates
- Commodity Prices
- Address Validation

Configure
Price Quote

Field
Service

Sales



Demo: Orchestration to Get Weather Forecast at Equipment Locations

Equipment Master - Work with Equipment Master Personal Form: (No Personalization) Layout: (No Layout) Query: *IoT Forklifts

✓ 🔍 + 📄 ✖ 📄 Row ⚙️ Tools

Display Additional Selections Cat Codes 1-10 Cat Codes 11-20 Cat Codes 21,22,23

Skip to Description *
 Resp. Business Unit * Location *
 Skip To Equipment Number
 Site Number *
 Customer Number *

Set to Available Parent Number Load New Equipment Get Location Check for Rain Reset Forecast

Sequence Grid By Equipment Number Description User Defined

Records 1 - 6 Weather Forecast

	Serial Number	Equipment Number	Description	Eq St	Equipment Status Desc	Site Number	Site Number Desc	Product Model	Product Family	State	Latitude	Longitude	Rain	Forecast
<input type="checkbox"/>	SN70	31870	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	CO	39.739235	-104.990250	false	Sunny
<input type="checkbox"/>	SN71	31871	IoT Forklift	WK	Working	200	Manufacturing/Distribution Com	IOT	FORKLIFT	FL	25.761681	-80.191788	true	Slight Chance Showers And Thun
<input type="checkbox"/>	SN72	31872	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	CA	37.774929	-122.419418	false	Sunny
<input type="checkbox"/>	SN73	31873	IoT Forklift	WK	Working	200	Manufacturing/Distribution Com	IOT	FORKLIFT	NY	40.712776	-74.005974	false	Mostly Clear
<input type="checkbox"/>	SN74	31874	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	IL	41.878113	-87.629799	false	Mostly Clear
<input type="checkbox"/>	SN75	31875	IoT Forklift	AV	Available - On Job Site	200	Manufacturing/Distribution Com	IOT	FORKLIFT	WA	47.606209	-122.332069	true	Showers And Thunderstorms



Do more work. Use less energy.

Let the Data Collect Itself.

Let the Data Come to You.

Think Globally. Act Locally.

Orchestrator Overview

The JD Edwards EnterpriseOne Orchestrator is a key component of your JD Edwards digital platform. It can transform the EnterpriseOne system from a transaction-based system of records into a system that provides a dynamic reflection of your real-time business operations.

[Features and Benefits](#)[Success Stories](#)[Use Cases](#)[Enhancements](#)[Orchestrator Overview](#)[Integration](#)[System Administration](#)[Capture Data](#)[Notifications](#)[Process Automation](#)

Get Started

- > [New Orchestrator Studio: Transform How You Use Your JD Edwards EnterpriseOne System with the Orchestrator](#)
- > [EnterpriseOne Orchestrator: As If You Thought It Couldn't Get Any Better](#) **NEW!**
- > [Orchestrations for IoT Overview](#)
- > [Presentation: Discover the Awesome Power of JD Edwards Orchestrator](#)
- > [Understanding the JD Edwards EnterpriseOne Orchestrator](#)















Implement

- > [Installation of Orchestrator Components](#)
- > [Setting Up Orchestrator Studio 9.2.4](#) **HOT!**
- > [Setting Up Orchestrator Studio 8.0 and Prior Release](#) **HOT!**
- > [Launching Orchestrations from EnterpriseOne Events Performance Characterization](#)
- > [Oracle JD Edwards EnterpriseOne Application Interface Services \(AIS\) Server - Performance Characterization Using ADF Application and IoT Orchestrations](#)



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- > [Business Function as an Orchestration Step](#) **NEW!**
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