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JD Edwards EnterpriseOne Orchestrator

Usage Patterns and Success Stories

AJ Schifano
Product Manager
Oracle JD Edwards

Channa Agnal
Product Manager
Oracle JD Edwards

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Agenda

1. What Is Orchestrator?
2. Why Orchestrator Is So Important

Orchestrator Usage Patterns:

3. Internet of Things
4. Mobile and Web Applications
5. Process Simplification/Automation
6. Integration
7. Intelligent ERP

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What Is Orchestrator?
Why Is Orchestrator So Important?

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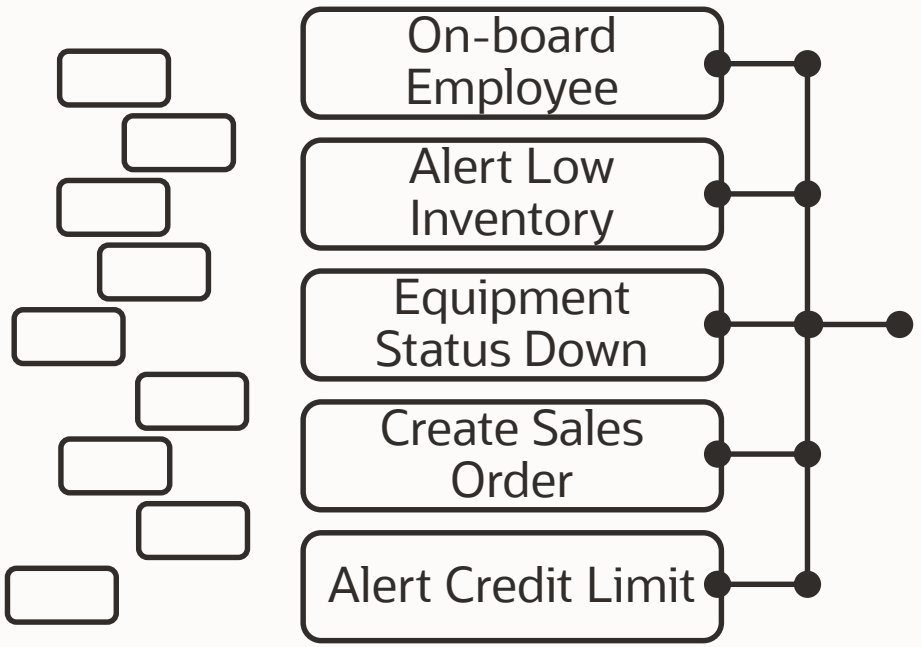
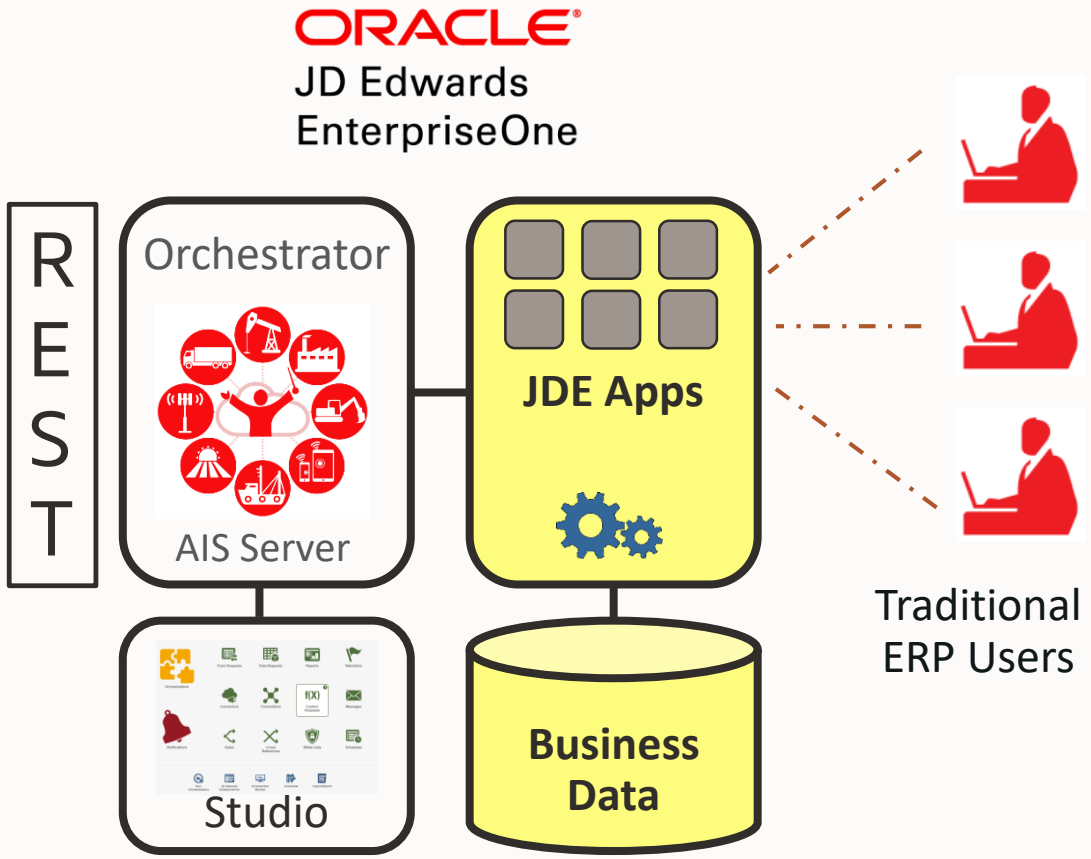
Orchestrator Is a JD Edwards “REST API Factory”

Business analysts create orchestrations, which are REST APIs



Orchestrations are user-defined objects (UDOs)



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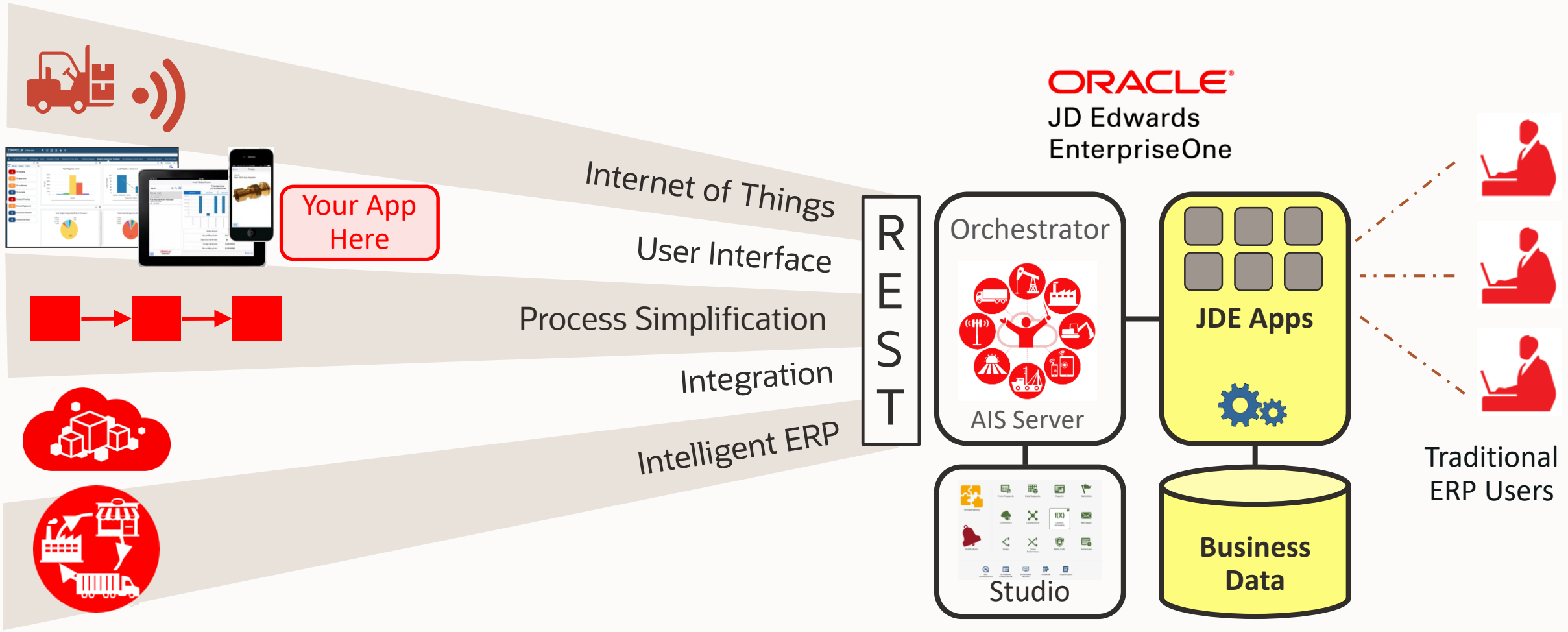
Orchestrator Connects JD Edwards to the Digital Economy



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Orchestrator Usage Patterns

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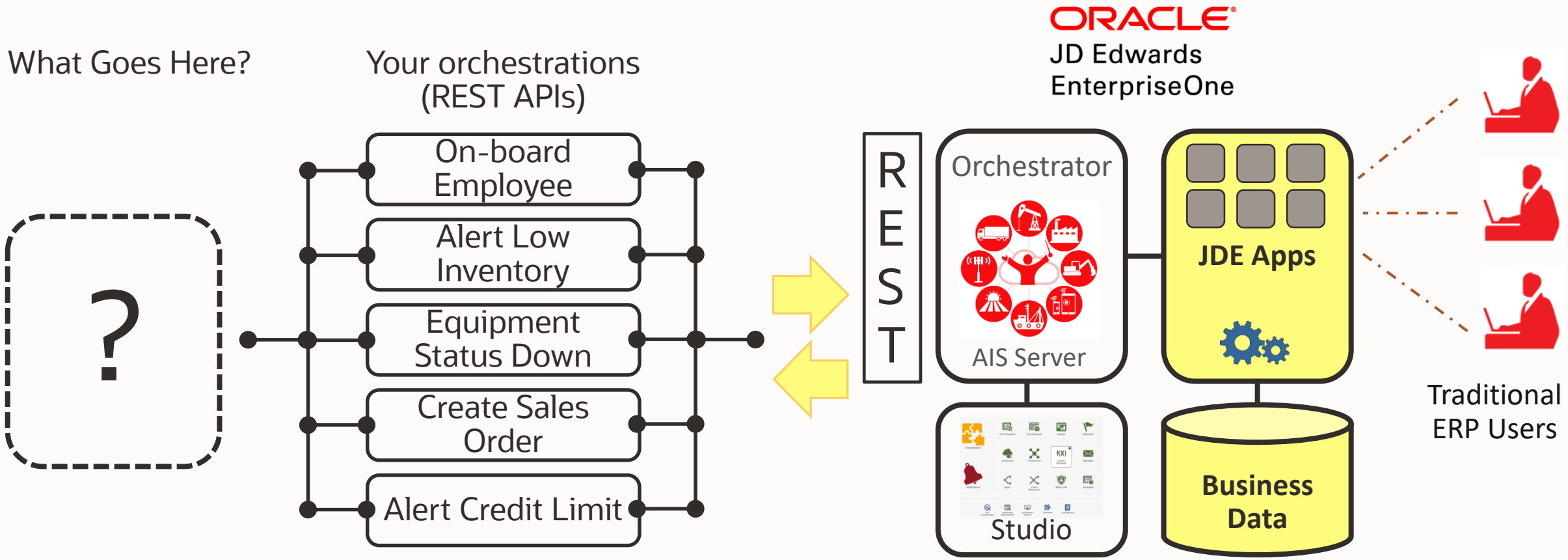
Putting Orchestrations to Use



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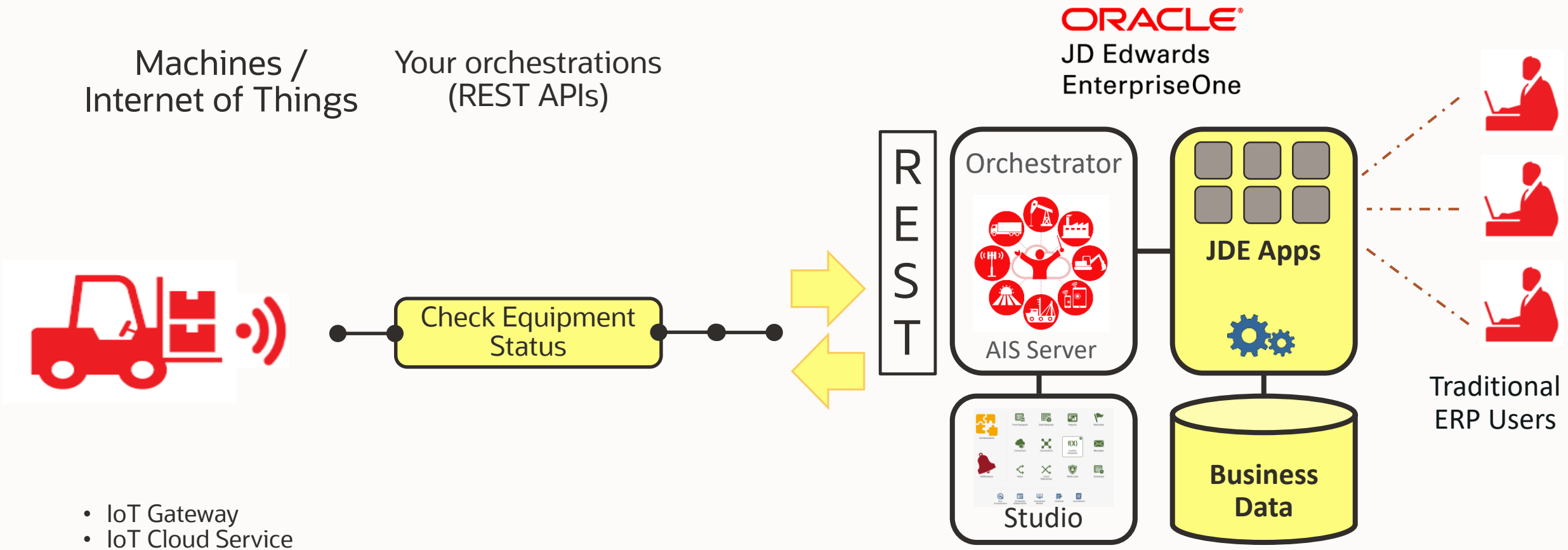
Putting Orchestrations to Use: Internet of Things



- IoT Gateway
- IoT Cloud Service
- IoT-enabled device

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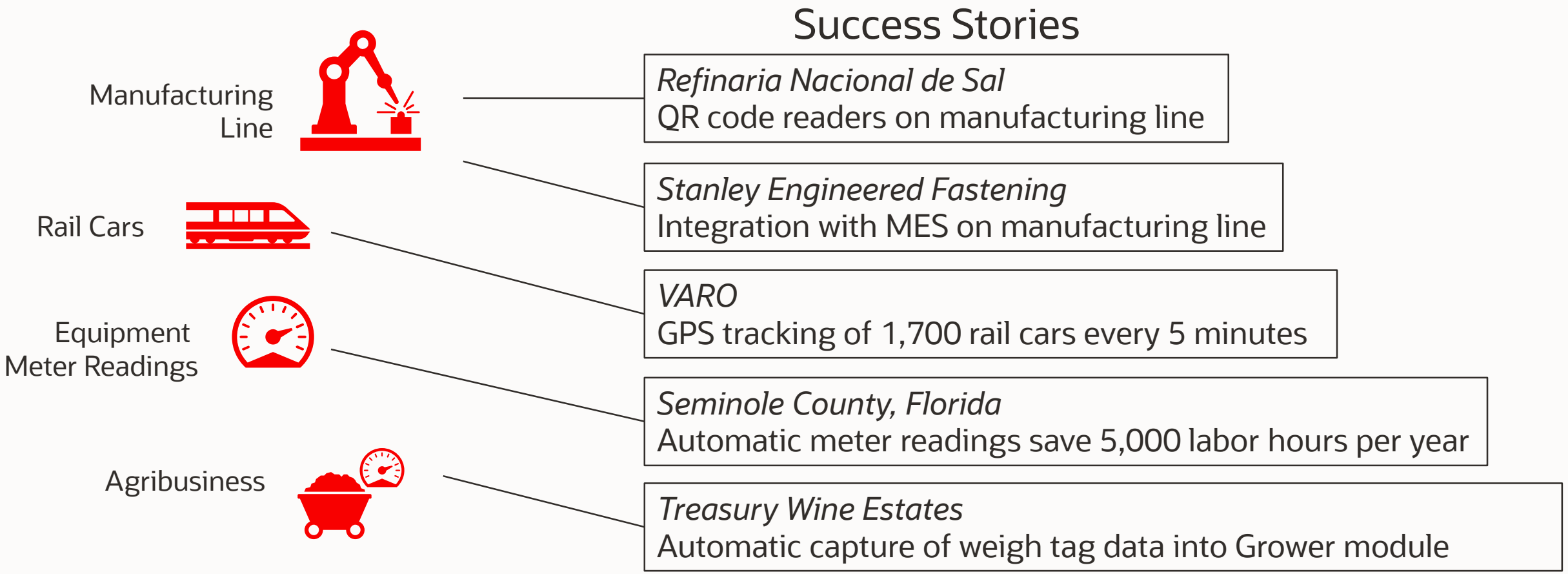
Putting Orchestrations to Use: Internet of Things



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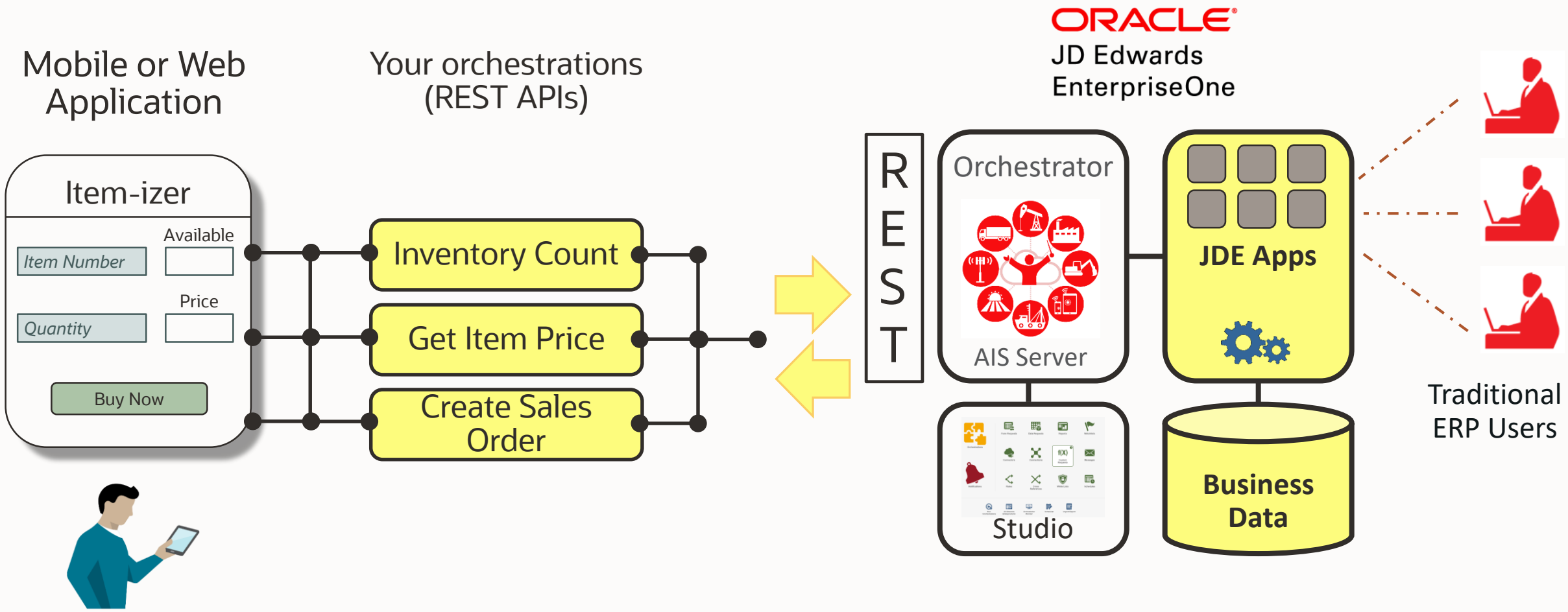
Putting Orchestrations to Use: Mobile and Web Applications



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Putting Orchestrations to Use: Mobile and Web Applications

Manufacturing

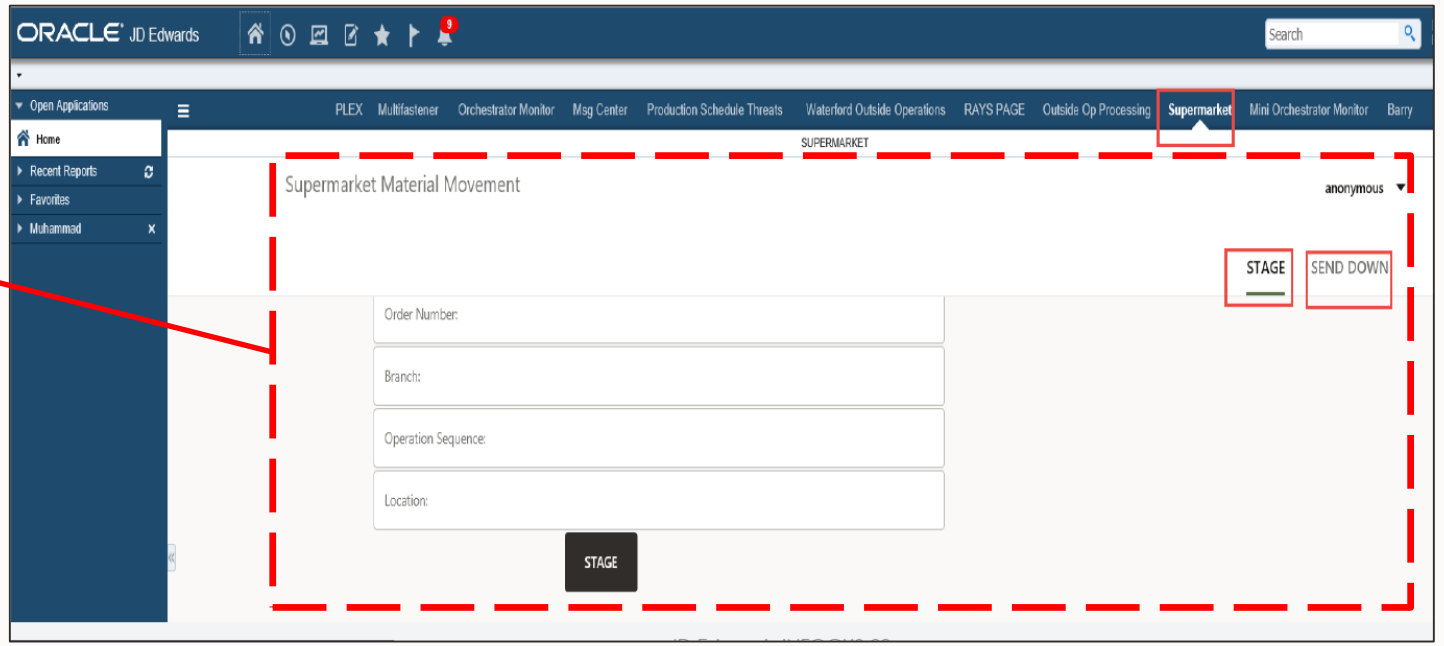
Success Stories

PennEngineering
"Magic Buttons" VBCS application to request work-in-progress

Oracle Visual Builder Cloud Service (VBCS) application hosted in an EnterpriseOne page

EnterpriseOne Features Used:

- EnterpriseOne pages
- Form extensions
- Queries
- Grid formats
- Orchestrations
- Notifications



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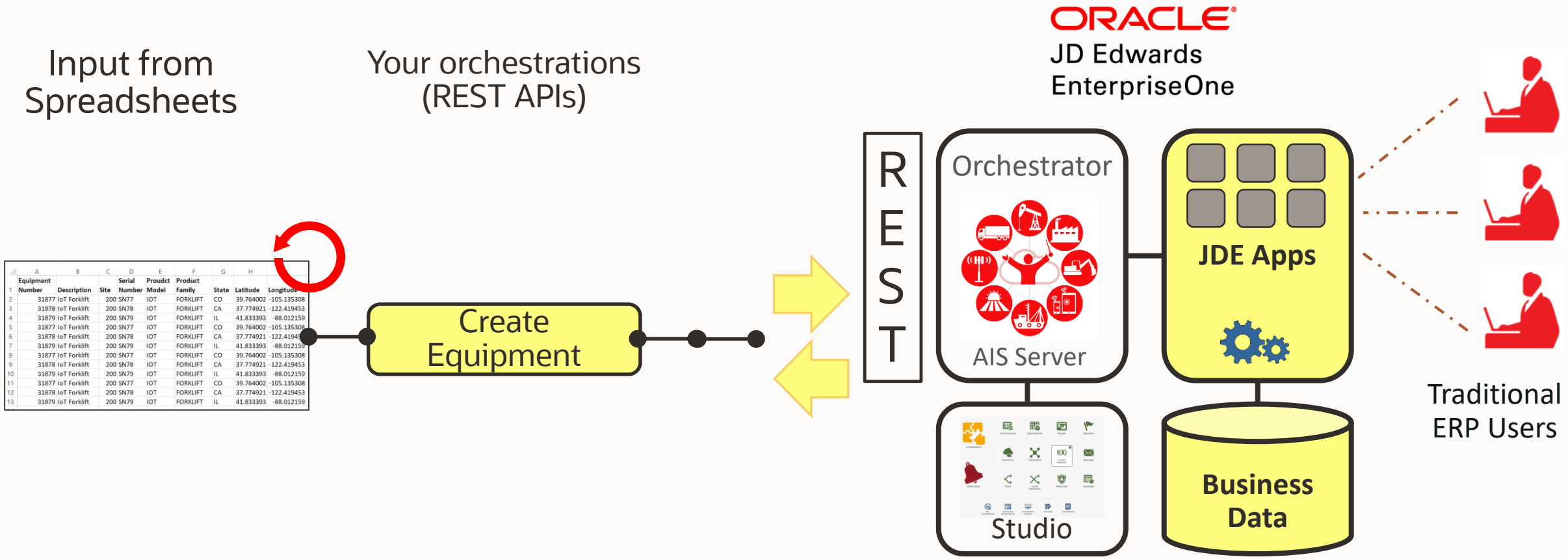
Putting Orchestrations to Use: Process Simplification



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Putting Orchestrations to Use: Process Simplification

Input from Spreadsheets

Your orchestrations (REST APIs)

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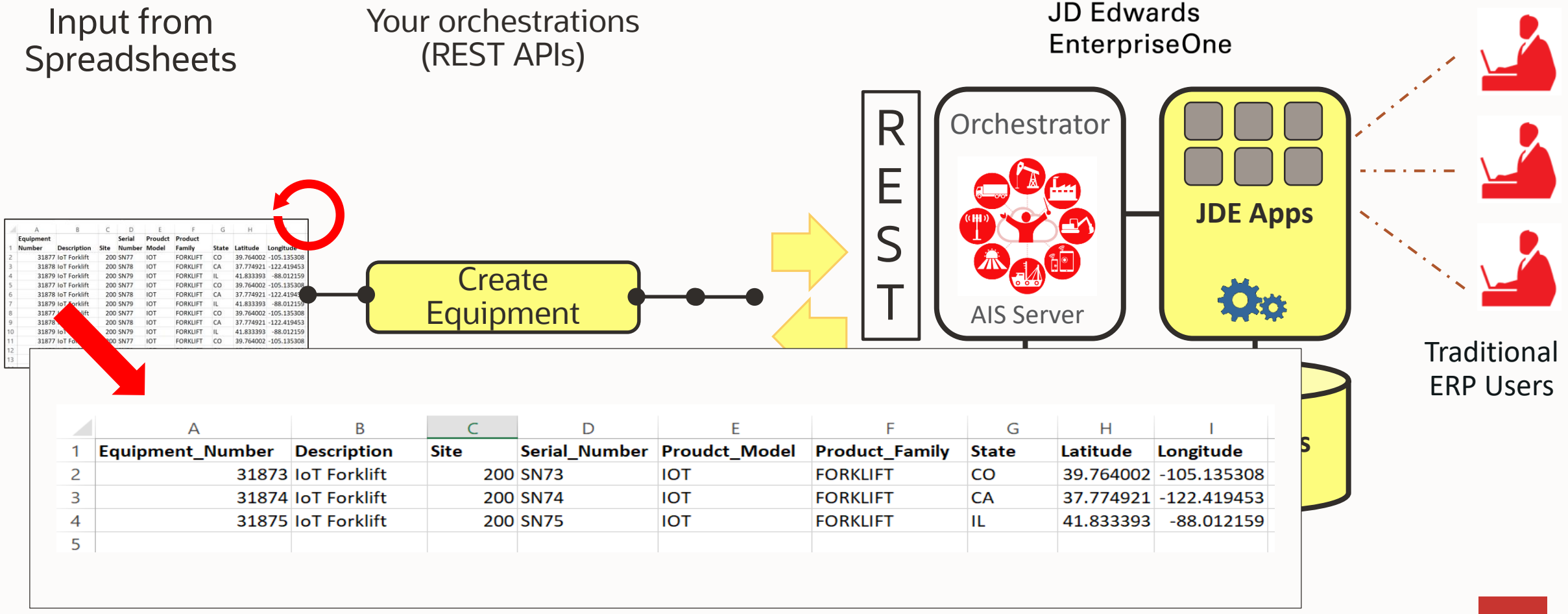
JD Edwards EnterpriseOne



	A	B	C	D	E	F	G	H	I
1	Equipment_Number	Description	Site	Serial_Number	Proudct_Model	Product_Family	State	Latitude	Longitude
2	31873	IoT Forklift	200	SN73	IOT	FORKLIFT	CO	39.764002	-105.135308
3	31874	IoT Forklift	200	SN74	IOT	FORKLIFT	CA	37.774921	-122.419453
4	31875	IoT Forklift	200	SN75	IOT	FORKLIFT	IL	41.833393	-88.012159
5									

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Putting Orchestrations to Use: Process Simplification

Success Stories

Manufacturing

J.B. Poindexter & Co, Inc.
Import thousands of part numbers, BoM's, routings and attachments for Engineer-to-Order

Distribution

Science Educational Supply Company
Creation of sales orders from spreadsheets

Agribusiness

King Ranch
Creation of hundreds of weigh tag Grower operations

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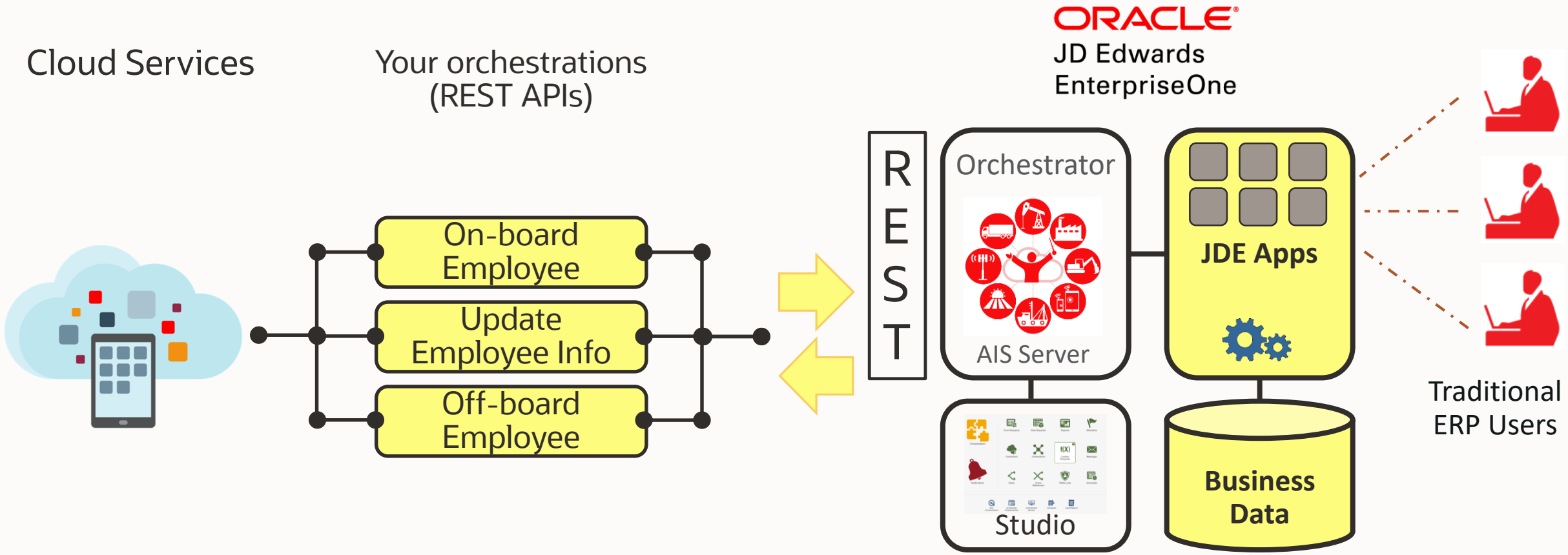
Putting Orchestrations to Use: Integration



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Putting Orchestrations to Use: Integration

Success Stories

Sales & Distribution

Eastern Propane
Integration between EnterpriseOne and Oracle Field Service

Sales & Distribution

Michelman
Integration between EnterpriseOne and sales force automation (in 60 days)

Automotive Leasing

Glesby Marks
Integration between EnterpriseOne and Oracle Configure/Price/Quote

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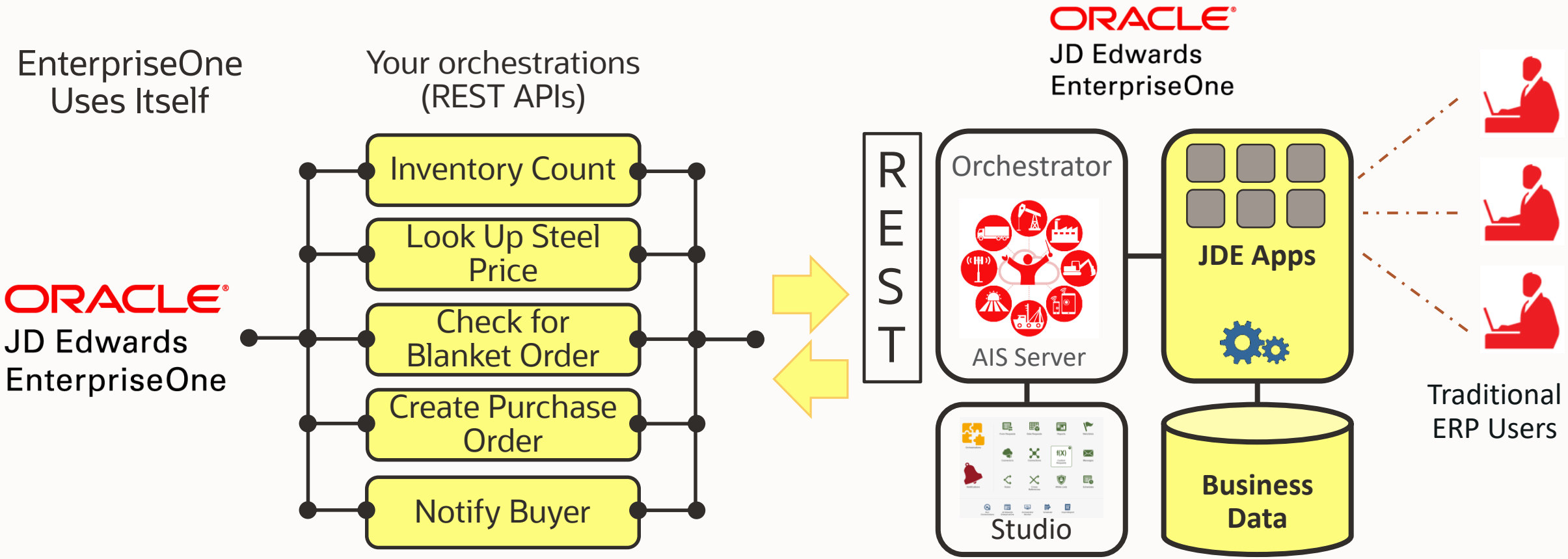
Putting Orchestrations to Use: Intelligent ERP



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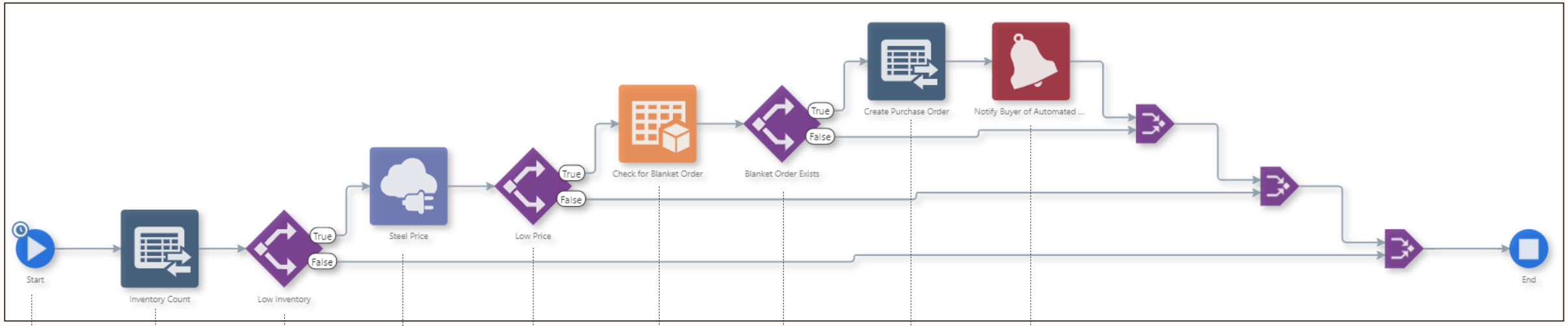
Putting Orchestrations to Use: Intelligent ERP



Run Every Day at 8:00

Check Inventory

Is Inventory Low?

Check Market Price

Is Price Low?

Check for Blanket Order

Does Blanket Order Exist?

Create Purchase Order

Notify Buyer

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And more usage patterns…too many to include today

- **Workflow** with Notifications and action links
- **Automated Testing** with the Assertion Framework
- **Robotic Process Automation**: record orchestrations from EnterpriseOne forms
- **Simplified EnterpriseOne user experience** by launching orchestrations from forms
- **Chatbots** and Digital Assistants
- **Automated Bank Transactions**
- **Data Visualization**
- **Data Integrity**
- **Automated Setup of Business Units**
- **Automated System Administration** using Server Manager APIs
- **Security Automation**, provision/revoke users, assign roles, automated password reset

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JD Edwards EnterpriseOne Orchestrator

Continuous Stream of Enhancements

2015-2016

9.1.5.5
- Orchestrator!
- Form service
- Rules
- White list
- Cross-reference
- Custom Java

9.2.0.2
- Studio
- Studio home page
- Transformations
- Where used
- Import/Export
- Orchestration UDOs

2017

9.2.1.2, 9.2.2.1
- Data service
- AIS Version 2
- Output format
- Message service
- Outbound REST
- Groovy
- Nested orchestrations
- OAuth 2.0 outbound
- Iterate over steps
- Database connector
- Watchlist as a step
- Notifications
- Scheduler

2018

9.2.2.4, 9.2.3.1
- Process Recorder
- Report as a step
- File transfer
- Confirmed completions
- Assigned subscriptions
- Resilient Scheduler
- Orchestrations launched from business function
- Message Center
- Orchestrator Monitoring
- Health Monitor
- Error Handling
- Input from CSV

2019

9.2.3.2, 9.2.3.3, 9.2.4
- Orchestrations launched from apps OpenAPI spec
- Enhanced output
- XML input & output
- Required inputs
- Paging for high-volume data
- Multiple actions in messages
- Orchestrations & URL as actions
- Redesigned Studio
- Scheduler UI
- Simplified Studio deployment/security
- Iteration over rows
- Mapping output to grid rows

2020

9.2.4.2
- Categories

9.2.4.3
- Orchestration Debugger
- Calling business functions as steps
- Embed orchestrations without a connector

9.2.4.4
- HTTP Compression
- Public Key Certs
- Queue Control
- Grouped Arrays from CSV

9.2.5
- Assertion Framework
- Large Data Sets
- Variables in REST File Upload

2021

9.2.5.2
- Select Multiple Rows in a Form Request
- Return REST Header Parameters as Variables
- Array Variables for External REST Calls
- Pass OAuth 2.0 Client ID and Secret in the Request Body
- Health Check for Basic Auth Configuration for the AIS Server
- Pass a Version to a Report Service Request
- Secure Session Balancing across AIS Servers

9.2.5.3
- Orchestrator UDO Dependencies

Planned

9.2.x
- Complex Queries to the EnterpriseOne Database
- Extensible Scripting Framework
- Launch Orchestrations from the E1 Web Client
- User-defined Orchestration Response Message
- Pop-up Messages for Orchestrations
- Rich Formatting of Messages
- Attachments to Messages: Media Objects
- Orchestrator Support for Media Objects
- Removal of Groovy from the E1 package (optional install)
- Logic Extensibility

Orchestrator Enhancements on LearnJDE:
https://docs.oracle.com/cd/E84502_01/learnjde/orchestrator_enhancements.html

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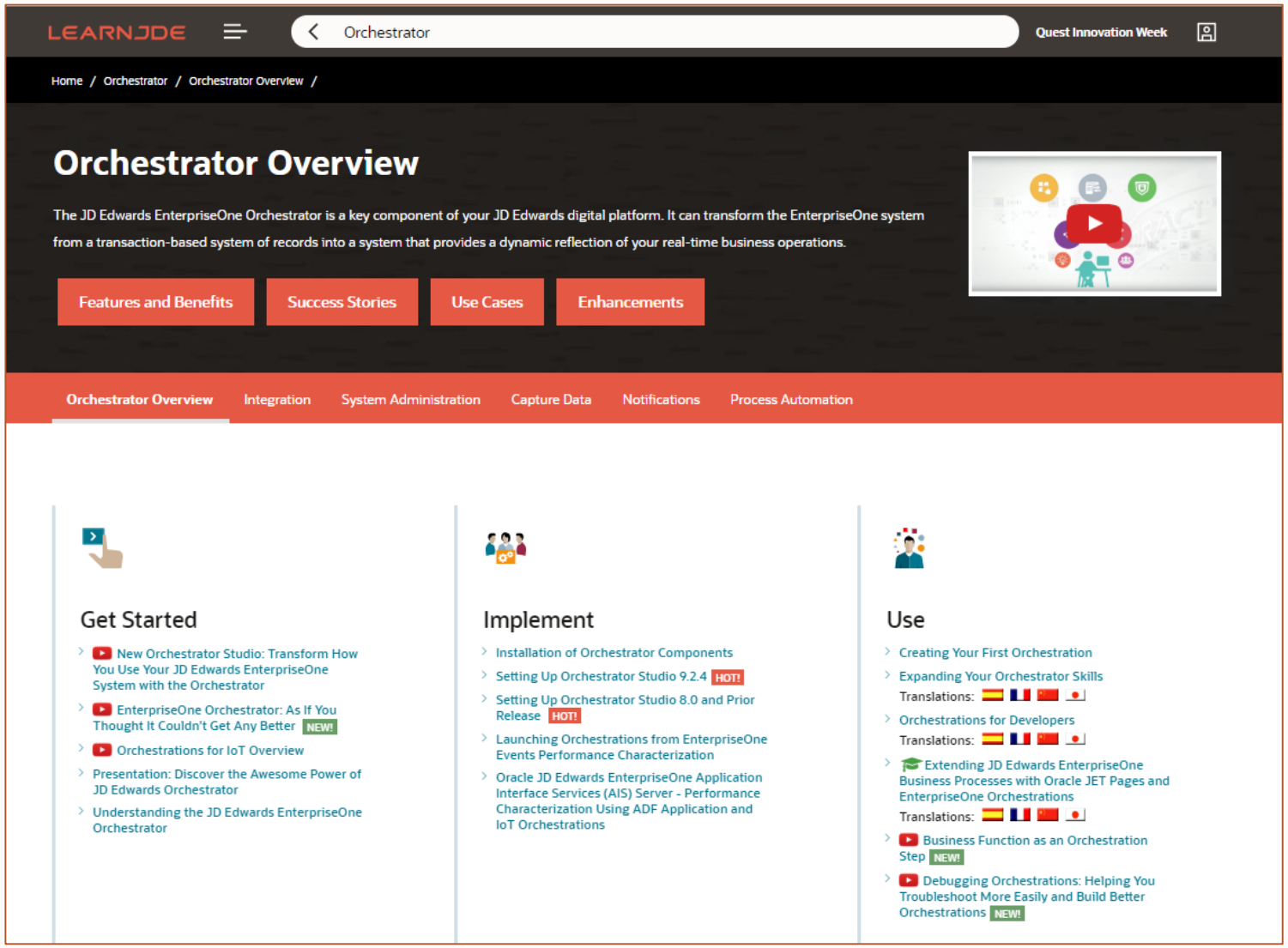
For more information see www.LearnJDE.com



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AJ Schifano
aj.schifano@oracle.com

Channa Agnal
channa.agnal@oracle.com

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