



JD Edwards

**INFOCUS**

ENVISION

## Automating Currency Exchange Rates using JD Edwards & Orchestrator

Presented by:

Mo Shujaat, Grant Thornton LLP

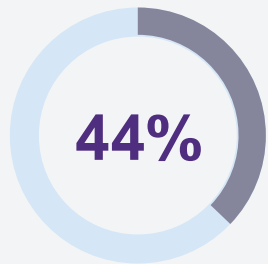
Anthony Palmisano, Grant Thornton LLP

Session ID

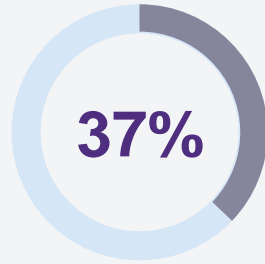
# About Grant Thornton

Thriving since 1924, our U.S. firm is people-focused and purpose-driven. We believe business should be more personal and that the strongest results start with trust.

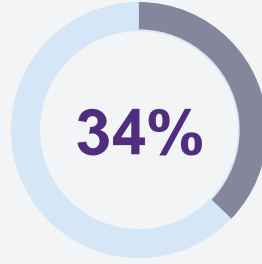
## Who we serve:



Fortune 100  
companies



Fortune 500  
companies



Fortune 1000  
companies

\* Statistics as of July 31, 2020



**\$1.92bn**

in revenue



**8,459**

people, including  
595 partners



**53**

offices

# Our Oracle Practice



## ERP and SCM

Financials | Revenue management | Accounting hub | Project accounting | Risk management | Project execution  
Procurement | Inventory management | Cost management | Maintenance | Manufacturing | Order management | Product lifecycle and data management | Supply chain collaboration and planning



## EPM Analytics

Planning and budgeting | Profitability and cost management | Financial close and consolidation | Tax reporting and provisioning  
Management and operational analytics | Narrative reporting | Account reconciliation | Enterprise data management



## HCM

Culture journey | Talent acquisition | Workforce administration | Talent management | Workforce development  
Alumni network

**Data governance & cloud integration**

**PaaS**

**Solution delivery center (off-shore and on-shore)**

## Industries

Construction,  
Real Estate  
& Hospitality

Consumer  
And Industrial  
Products

Energy

Financial  
Services

Healthcare  
And Life  
Sciences

Not-For-Profit  
Organizations

Private Equity

Public Sector

Technology

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# About Grant Thornton JDE

JD Edwards practice – 80+ dedicated professionals in U.S.

## Project management and functional expertise

- Specialized functional resources
- Project management office
- Implementations
- Upgrades
- Mobile applications
- Third party integration architecture
- Business process re-engineering
- Managed services (functional)
- User materials and training
- Financials
- Distribution
- Manufacturing
- HR / Payroll
- CAM
- Project advisory

## Technical

- CNC
- Development
- Workflow
- Security management
- Technical management
- Database management
- Infrastructure / hosting
- Managed services (technical)
- Private cloud
- Disaster recovery
- Security
- Development (FRICE)

## Trusted business advisor

- Gap assessment
- Transformation
- Industry point of view
- Proven methodologies
- Process excellence
- Benchmarking
- ERP governance
- Data governance
- Master data management
- Reporting strategy
- Change management
- Cloud roadmap / strategy
- FASB planning
- Chart of accounts optimization



### Oracle leadership

- The Leading Oracle Platinum Partner presenter at COLLABORATE, INFOCUS and OpenWorld conferences (more presentations than any other Platinum partner in the past 3 years)
- Featured in PROFIT magazine – JD Edwards Special Issue
- Teaming with JDE product development – we work with JD Edwards on enhancing the code base for customers (e.g. OneView Reporting, Revenue Recognition, Leasing Standards, Configurator)



### Experience and recognition

- More than 250 JD Edwards implementations and upgrades as a practice
- Over 20 implementations in the past 5 years
- Over 50 upgrades in the past 5 years
- 2017 JD Edwards Partner Excellence Award for **User Adoption**
- 2016 JD Edwards Partner Excellence Award for **Vertical Industries**
- Oracle JD Edwards recognized Grant Thornton with its 2014 and 2015 JD Edwards Partner Excellence Award for Outstanding **Upgrades**

# About Me – Mohammad Shujaat, Manager



- Mo is a manager with Grant Thornton in the Technology Solutions practice. He has over 7 years of consulting experience, across a diverse set of companies and industries. Mo's experiences include hands on management and implementation of ERP software packages, business process reengineering and system architecture design. Mo is passionate about using JDE usability tools and orchestrations to provide customers with creative and unique solutions which help progress them on their digital journey. Mo is also experienced in blockchain solutions and has implemented machine learning solutions with JDE
- He has experience with the processes and configuration of the JDE Distribution and Manufacturing modules, specifically with the, Procurement, Sales, Inventory, Advanced Pricing, Shipping, Discrete Mfg, MTO Mfg, and Transportation. Mo also has experience with multiple releases of the software, web services, and warehouse data collection. Prior to joining Grant Thornton Consulting, Mo was an experienced consultant at an Oracle Partner

#### Industries

- Consumer Products
- Retail
- Metals and Mining
- Mineral Exploration Drilling
- REST integrations
- Construction & Building Materials
- Automotive Parts Manufacturing
- Metals Components
- Data Collection
- Third Party Logistics
- Inbound / Outbound Transportation
- Machine learning
- Blockchain

# About Me – Anthony Palmisano Manager



- Specializes in:
  - Project Management
  - EnterpriseOne Upgrades
  - Orchestrator
  - Multiple E1 Modules
- Industries:
  - Energy
  - Retail
  - Manufacturing
  - Construction

# Agenda

- Orchestration Overview
- API Integrations with Orchestrator
- Currency Exchange Rates with Orchestration

# Overview





# Currency Exchange Rates

- No prebuilt method to fetch rates & input into JDE automatically
- Historically required a manual process or a batch file import

# Web Service Integrations & Orchestrator



# Creating Great Integrations using Orchestrator



Compartmentalize your integration

Its not a contest to write the biggest & most complex orchestration!  
Break the logic out into reusable, logical chunks of functionality

- Orchestra example



Keep it simple

Don't try to overcomplicate things

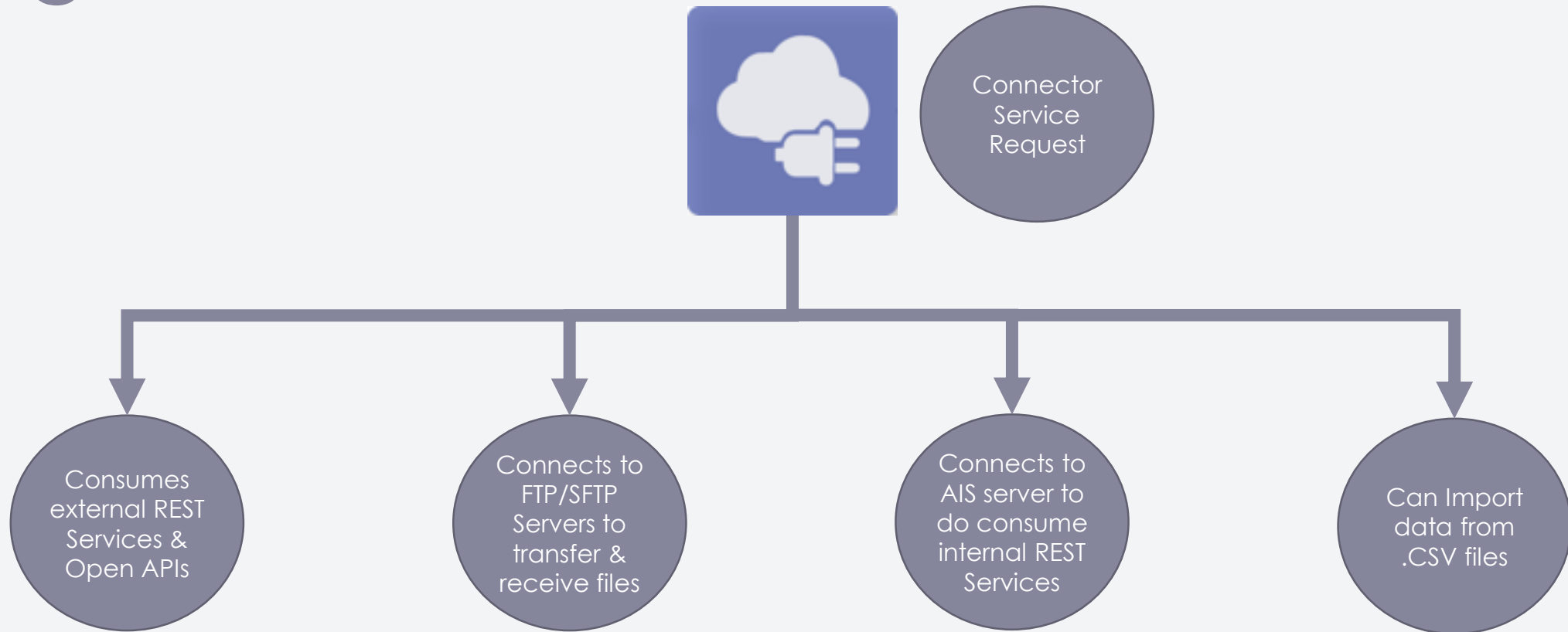
- Transformations



Don't try to fit a square peg in a round hole

What should happen in a UBE, should stay in a UBE!

# Orchestrator as your Outbound JDE Integration Platform

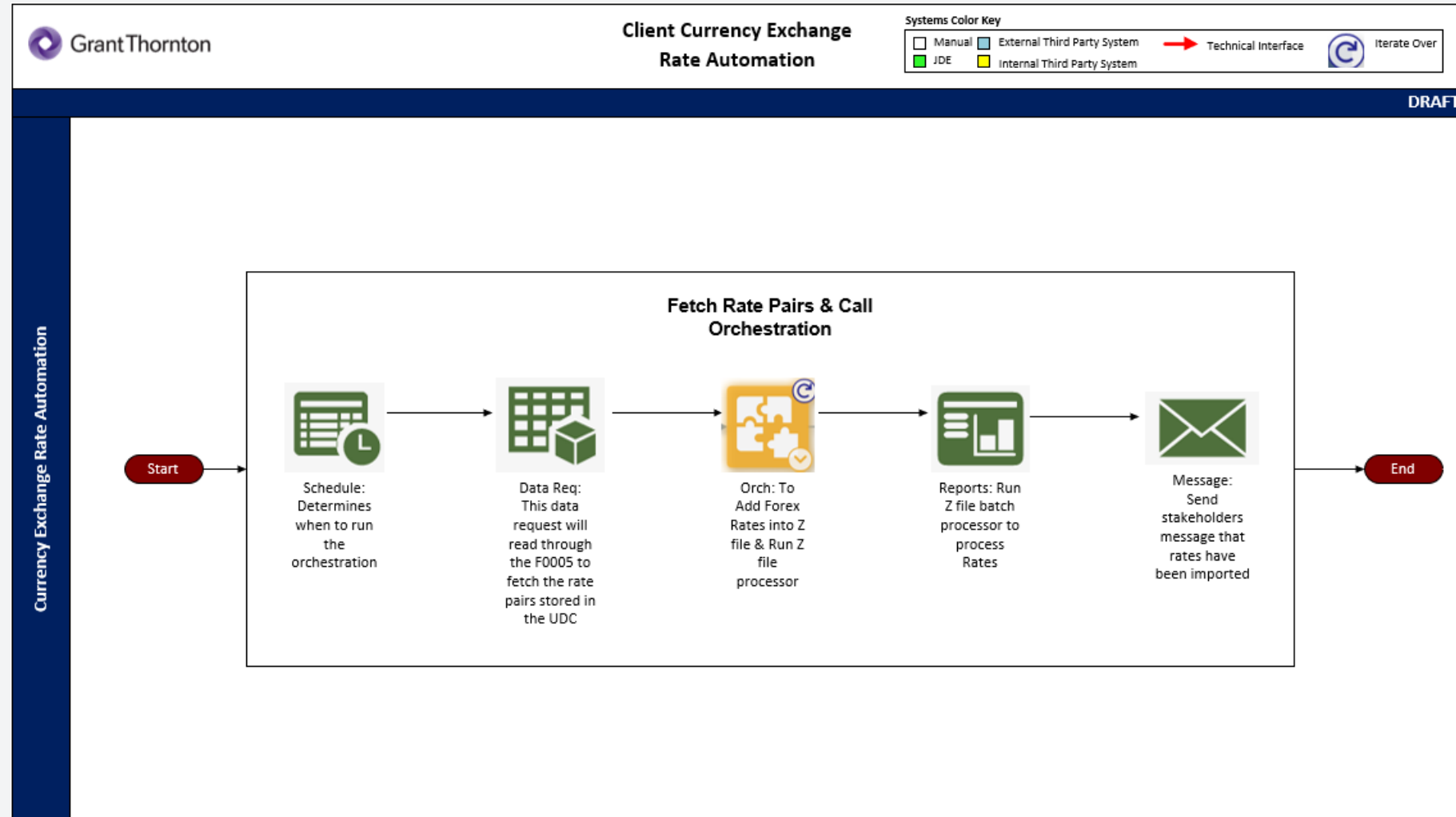


# Currency Exchange Rate Orchestration



# Build – Orch #1

- Orch 1 of 2
- Data Request to fetch all currency exchange pairs
- Iterate over the data request array when calling the Orchestration
  - fetch rates and input them in Z file
- Call UBE to process Z file records
- Send message to stakeholders informing them of successes or exceptions



# Build – Data Request

- Data Request:
  - Allows us to create a scalable integration
  - The form request will aggregate forex pairs and submit each pair to the second orchestration to retrieve rate
  - Allows business to manage integration scope & add without IT intervention

**User Defined Codes - Work With User Defined Codes**

✓ 🔍 + 🗑️ ✕ ⌵ Row ⌵ Form 📄 Report ⚙️ Tools

Product Code  *Reserved for Clients*

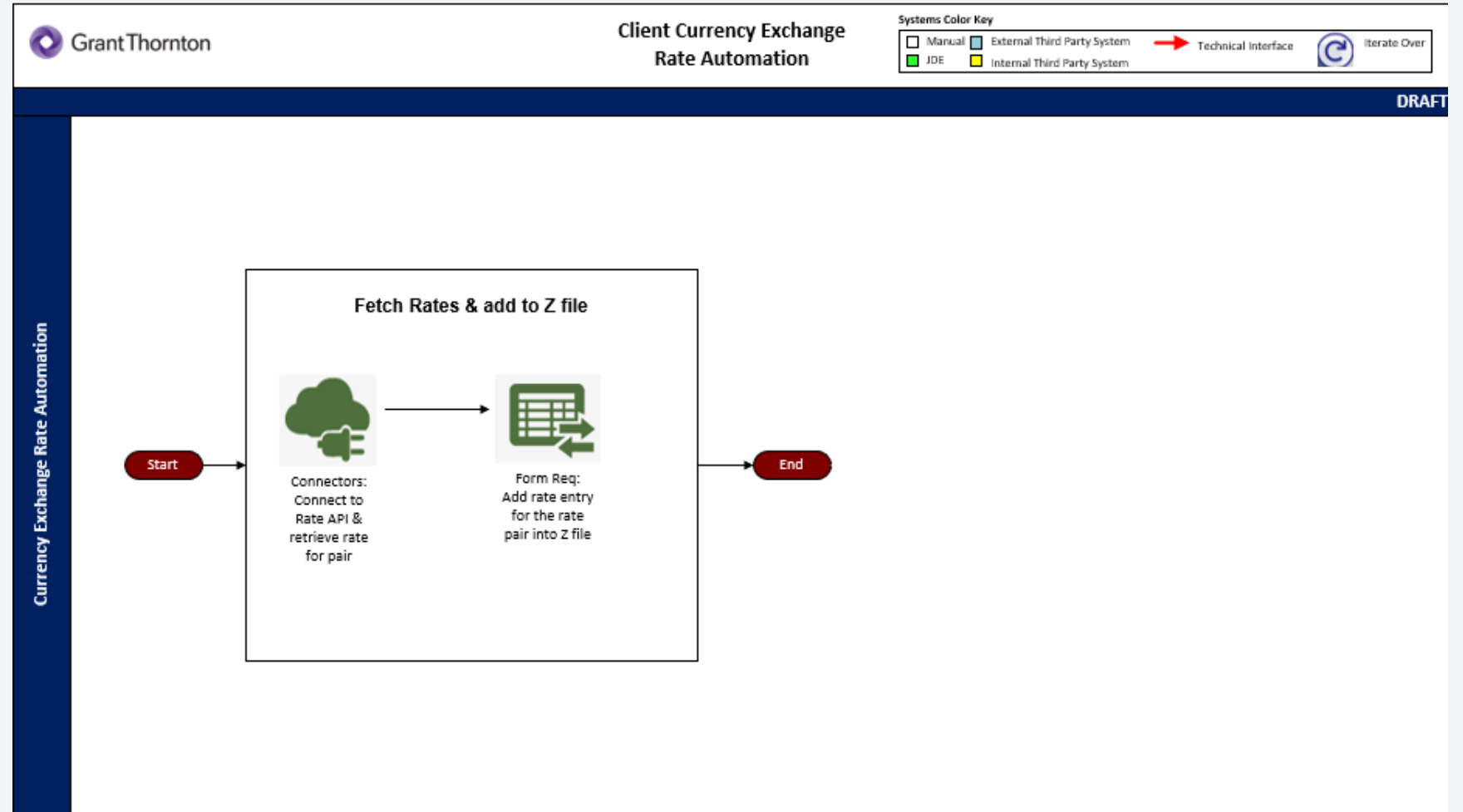
User Defined Codes  *Currency Conversions Setup*

Records 1 - 5

<input type="checkbox"/>	<input type="checkbox"/>	Codes	Description 01	Description 02	Special Handling	Hard Coded
<input type="checkbox"/>	<input checked="" type="checkbox"/>	001	USD	MXN		N
<input type="checkbox"/>	<input type="checkbox"/>	002	USD	INR		N
<input type="checkbox"/>	<input type="checkbox"/>	003	CAD	USD		N
<input type="checkbox"/>	<input type="checkbox"/>	004	USD	GBP		N
<input type="checkbox"/>	<input type="checkbox"/>	005	USD	EUR		N

# Build – Orch #2

- Orch 2 of 2
- Will consume a REST API per rate pair
- Will add Z file record for each rate pair & the fetched rate from the API





# Build – Form Request

- Form Request:
- Integration uses standard JDE Applications
- Ensures that JDE business logic & rules are being administered
- Allows us to stage data for reference or troubleshooting if required

**Work With External Currency Exchange Rates** Pe

✓ 🔍 + 🗑️ ✖️ ⚙️ Tools

User ID  \*      From Currency Code  \*

Batch Number  \*      To Currency Code  \*

Transaction Number  \*

Processed (Y/N)

Business Review

MDM - Review

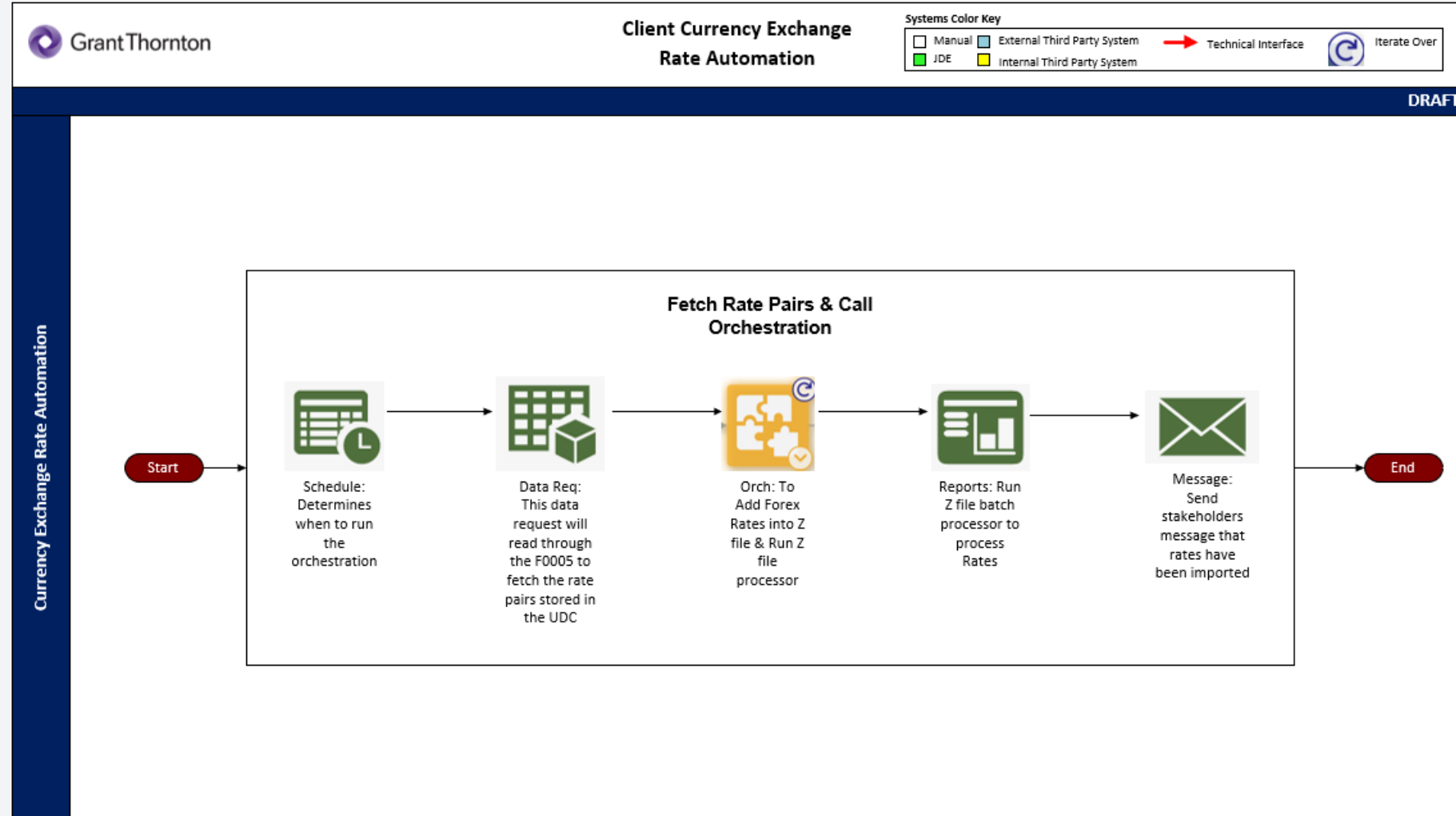
MDM - Approve

Records 1 - 5 MOS

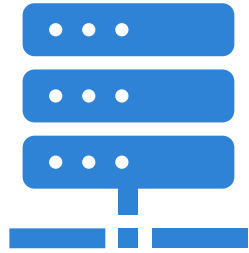
	User ID	Batch Number	Transaction Number	Line Number	Address Number	S P	From Currency	To Currency	Exchange Rate	Workflow Status
<input checked="" type="radio"/>	MSHUJAAT	538	1	1.000			USD	MXN	.0475320	
<input type="radio"/>	MSHUJAAT	539	1	1.000			USD	INR	.0135646	
<input type="radio"/>	MSHUJAAT	540	1	1.000			CAD	USD	1.3126055	
<input type="radio"/>	MSHUJAAT	541	1	1.000			USD	GBP	1.3059480	
<input type="radio"/>	MSHUJAAT	542	1	1.000			USD	EUR	1.1851999	

# Build – Orch #1

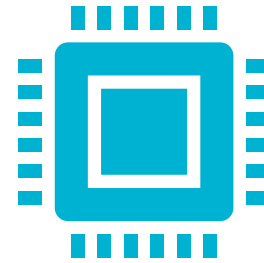
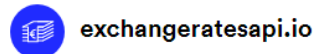
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# Wins: Flexible & Friendly



**This design works with multiple exchange rate services:**



**The design is also scalable and flexible for end users**

Can also be extended to pull specific central bank rates using the UDC special handling code

Q & A



# At Quest, you belong.

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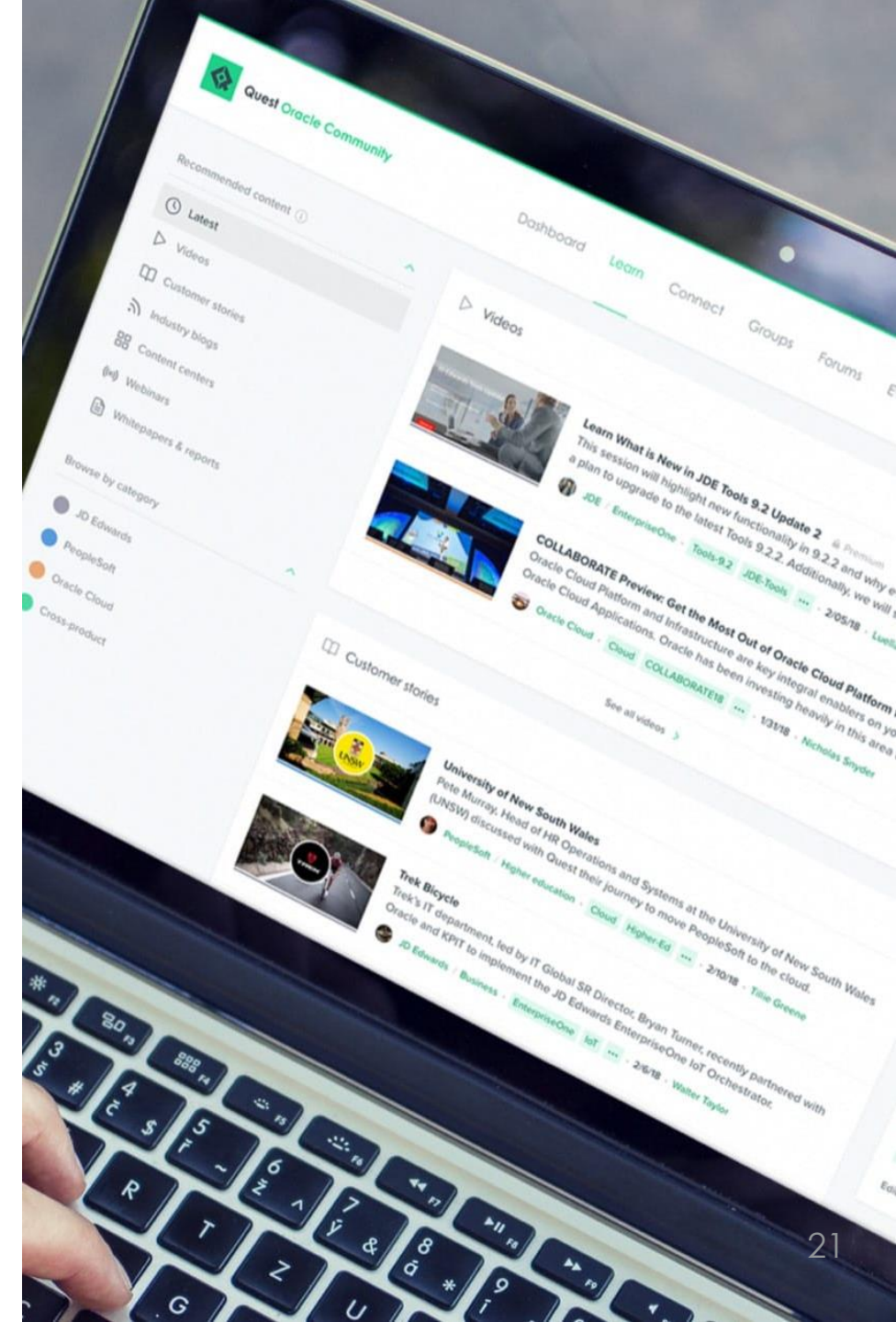
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- Make better, informed decisions.
- Increase their sphere of professional influence and advance their careers.

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Contact me:

[Mohammad.Shujaat@us.gt.com](mailto:Mohammad.Shujaat@us.gt.com)

[Anthony.Palmisano@us.gt.com](mailto:Anthony.Palmisano@us.gt.com)

Session ID:



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JD Edwards  
Community