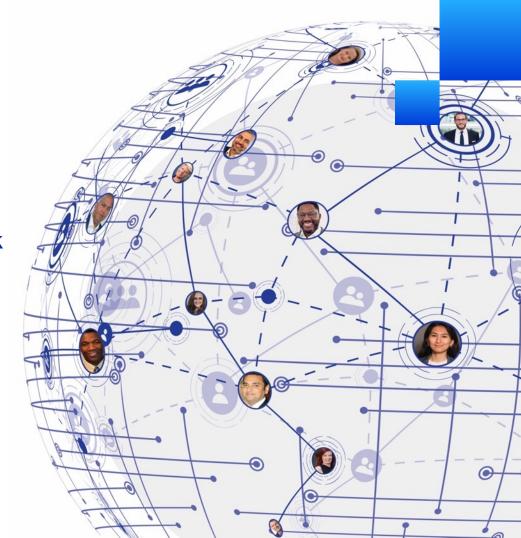
### **SAP**insider

# **SAPinsider Managing the Complexity of Bank Connectivity for SAP S/4 HANA**

Steven Otwell — December 2, 2021



THE MOST TRUSTED INDEPENDENT INFORMATION SOURCE FOR SAP ENTERPRISE SOFTWARE CONTENT

SAPINSIDER COMMUNITY 500,000+ STRONG

### **Steven Otwell**



Steven Otwell is Director of Payments and Connectivity with Kyriba. He has 15+ years in bank connectivity, payment hubs, SWIFT and payment fraud

### What We'll Cover

### **Complexities of Global Banking**

- SWIFT
- Standardization (or lack there of)

### **Payment Hubs**

- What is a payment hub
- Value of a payment hub

#### **Business Case**

- Are you a candidate for a payment hub?
- What is the ROI?

# Topic 1

**Complexities of Global Banking** 

# Why is connectivity a problem?

# 91% of CIOs and VP IT responded that bank integrations was one of the most complex aspects of their ERP project - Pulse Survey 2020

- There is little standardization among not only from bank to bank but from branch to branch. Every bank and every regions has their own specific file structure that needs to be developed and tested.
- Business users need the flexibility to manage new banking relationships and not subjected to IT bottleneck
- Payment Fraud is now a major concern at the C-Level.
- New compliance standards from SWIFT now require internal SWIFT domain expertise with annual certifications and annual documentation
- IT's focus is on building 1x1 bank connections instead of working on strategic initiatives.



# **Kyriba Connectivity Network for SAP**

### **Accelerating the Time-to-Value for S/4HANA**



Connectivity as a Service with Bolton Bank Connectivity for SAP to 1,000+ Banks

BANK CONNECTIVITY



Global bank monitoring of all incoming and outgoing files; fully outsourced banking support

**Bank Monitoring** 



45,000+ pre-developed and bank tested payment format scenarios shared across all clients

PAYMENT FORMAT LIBRARY



Customized
Payment Fraud
Management
utilizing
detection rules
coupled with
machine
learning

**Payment Fraud** 

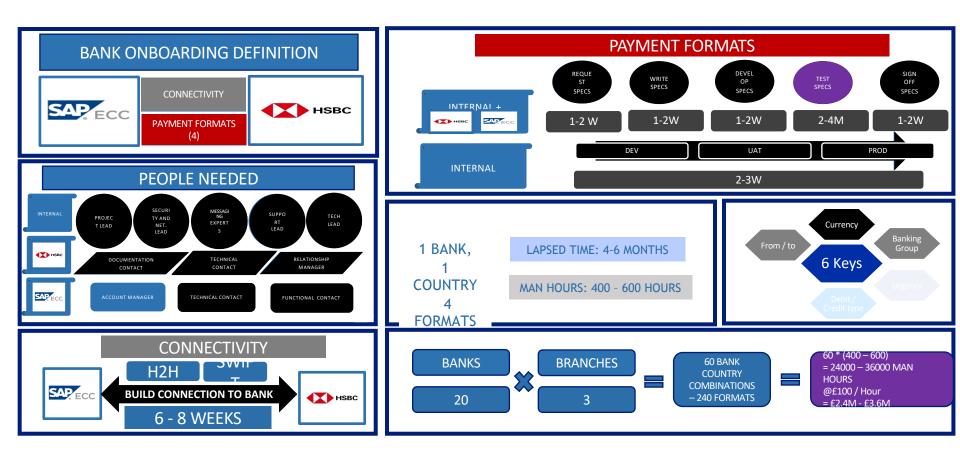
### **Bank Connectivity as a Service**

# **Kyriba runs the world's largest Bank Connectivity service**

- 1,000+ active configured and tested bank connections for plug & play SAP connectivity
- Library of developed and tested global payment formats
- Fully outsourced connectivity service, no client internal IT resources required
- No internal SWIFT domain expertise or annual certifications/testing required
- API, FTP, SWIFT, Regional Protocols
- Largest Corporate SWIFT Service's Bureau globally - 20% of SWIFT Corporate runs through Kyriba



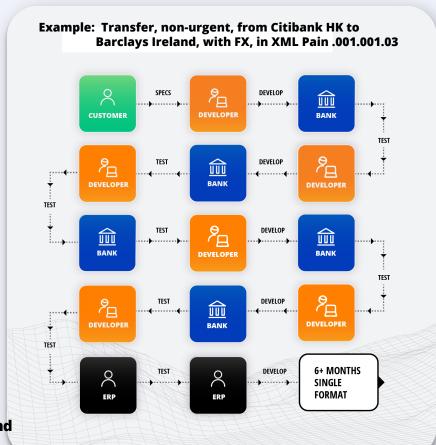
### **The Bank Onboarding Process**



# **Traditional ERP Payment Development**

- All payment templates must be individually developed and tested with the bank
- Developers must coordinate all testing with the bank's tech team
- Format typically fails first test, multiple tests required.
- Must work on the bank timeline and time zone
- Average timeline from development to ERP production is 3-6 months

For just LATAM, Colgate needs 90+ format scenarios developed and tested Average bank payment templates per bank



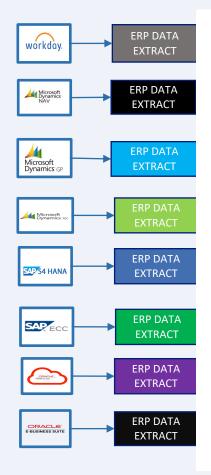
## **Kyriba Client Shared Payment Format Library**



45,000+ off the shared shelf formats

- 20 Years in development full time staff of 7+
- Single payment file from SAP, Kyriba interprets and transforms all payments to approved format per bank
- Payment Formats are shared across multitenant architecture
- Ongoing maintenance of all formats
- Formats are productized under SLA
- No client IT resources required Kyriba manages all bank communications and testing
- . Governed under SOC 1 and SOC 2

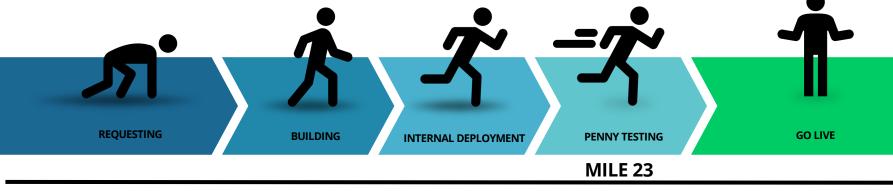
# **Example of a Complex Connectivity Landscape**



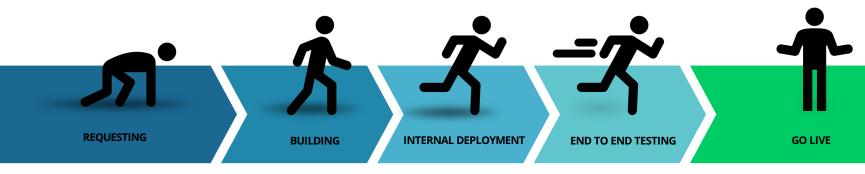
KYRIBA HANDLES THE BANK CONNECTIVITY
AND THE TESTING, DEPLOYMENT AND
MAINTAINENCE OF ALL THE PAYMENT
FORMATS AS A MANAGED SERVICE



# Kyriba Vs DIY

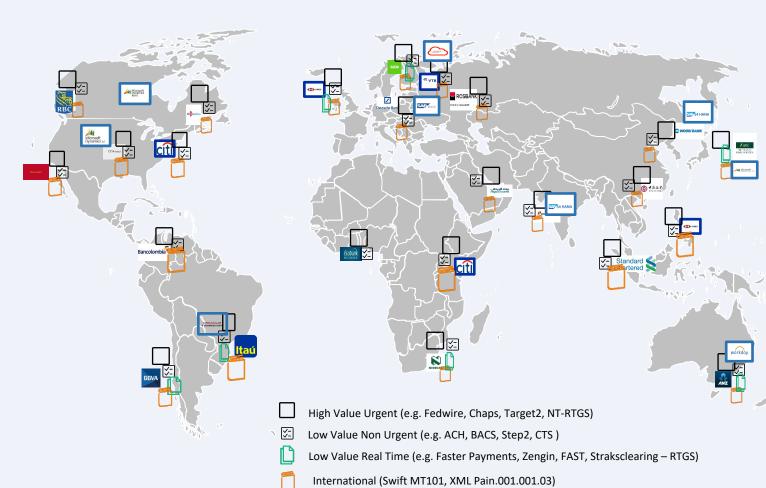


### **MARATHON 26 MILES – WITH KYRIBA**



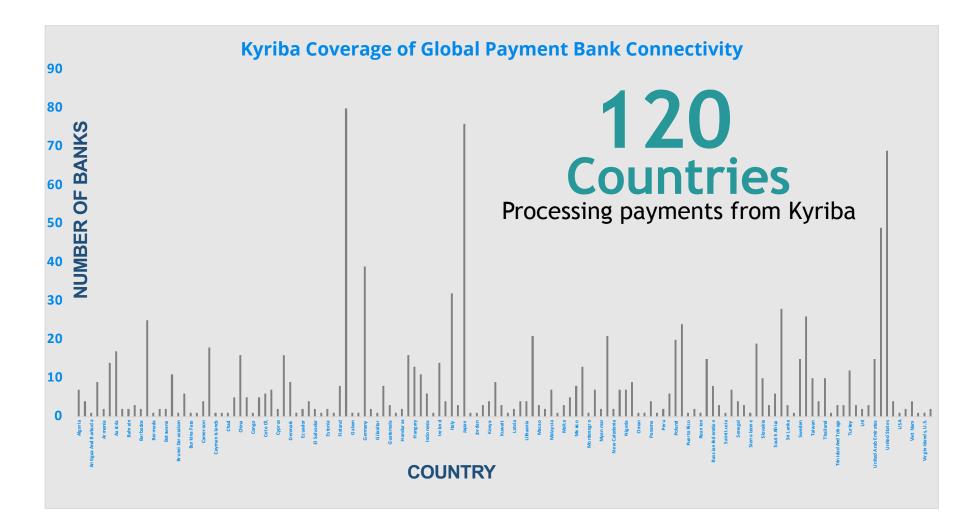
MILE 0

# **EXAMPLE CONNECTIVITY PICTURE**



# Topic 2

Managed Bank Connectiivty





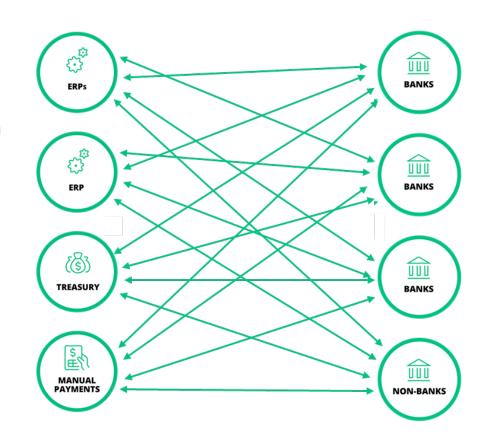
### **Bank Connectivity Complexity**

### **Bank Statements**

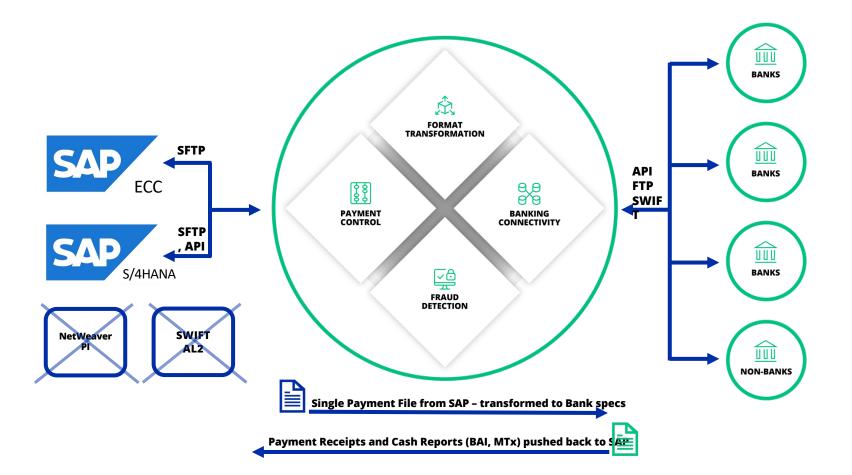
- Every Bank accounts requires 1x1 mapping back into each ERP.
- 300 bank accounts = 300 ERP integration
- Any change in bank statement needs to be mapped into SAP, new project

### **Payments**

- Every unique payment format must be individual tested with each bank, 3-6 months per format
- 20 banks with 10 formats = 200 unique developments and testing
- Every time a bank has a format change is a new IT project



### **Kyriba Connectivity Network for S/4HANA**



# **Topic 3**

**Payment Fraud** 

### **Kyriba Fraud and Compliance**

### **Fraud Detection**

Fraud Detection is managed on two workflows:



Customizable Risk rules



Machine Learning model

### **Sanction List Screening**

Fully integrated solution, with sanction lists automatically updated daily



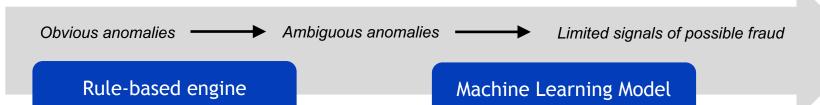
FIRCO

Detect payments not compliant with sanction lists:



Proactive check to avoid frozen funds, fines, reputation damage

# **Rules Based and Machine Learning**





Benefit from a large scope of anti-fraud controls



Be in control of when you get alerted



Implement the rules to comply with internal policies



Get alerted when a payment is an anomaly compared to the payment history



Detect new fraud patterns



Let Kyriba manage all the maintenance required for efficient ML

### **Sample of Detection Rules**

1st payment to a bank account but for an existing vendor

High number of payments to the same vendor

Payment to a country where you have no business

Modification of a payment imported from back-office

Vendor, beneficiary bank or country blacklisted according to a sanction list

Inconsistent Payor/Payee countries

Unusual payment/amount/date

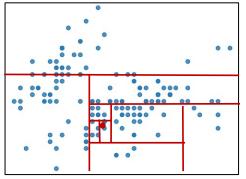
Payment to high risk countries

# **Details on Machine Learning**

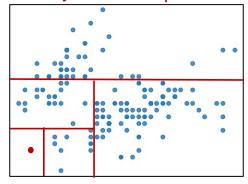
- Machine Learning models are algorithms available in open source.
- Our data scientists tested several of them and selected the one recommended by the literature for what we were trying to solve: detect an anomaly in a data set
- Machine learning model selected: Isolation Forest
  - "Isolation forest is an unsupervised learning algorithm for anomaly detection that works on the principle of isolating anomalies. In statistics, an anomaly (a.k.a. outlier) is an observation or event that deviates so much from other events to arouse suspicion it was generated by a different mean."

Anomalies require fewer random partitions to be isolated, compared to normal points
Simple example with a data set represented in 2D

### Normal point: 8 random partitions



### Anomaly: 4 random partitions



# **Topic 4**

**Business Case** 

# ROI - Kyriba Connectivity Network vs ERP



### **Qualitative Summary**



Cost Reduction and Predictability



Speed and On-Going Flexibility



**Fraud Detection** 



**Bank Grade Security** 



Contractual Business Continuity



All Inclusive Product & Service Based Offering

## **ROI – Kyriba Connectivity Network vs ERP**

### <u>Itemized Cost and Time</u> <u>Comparisons</u>

Time to Integrate 1

Average Integration Cost Per Bank

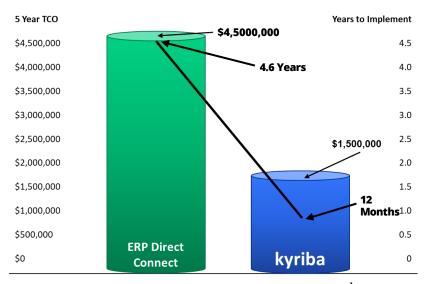
Annual Support of Bank Connections

Capacity to add banks in a year

Custom Developed  ERP Bank  Integrations	<u>Kyriba</u> <u>Connectivity</u> <u>Network</u>				
*Average 500-1,000 Hours	12 Hours				
*\$60,000-\$200,000	\$2,400				
~1 - IT FTE per 10-20 Banks	\$3k/year subscription per bank				
10-15 banks a year	50+ banks a year				

\*Depending on bank complexity, internal teams and bill rate

### <u>Actual Customer Analysis 5 Year TCO - 50 Banks: ~\$3M Direct</u> Cost Reduction and 1-year Implementation vs 4.6 Years



Implementation Timeline (Years)



### **THANK YOU**

**Steven Otwell** 

Kyriba sotwell@kyriba.com



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### VIDEO CONFERENCING GUIDELINES

PLAN AHEAD TO AVOID DISTRACTIONS



#### **CAMERA POSITIONING**

Camera should be centered at or above eye-level, maintain eye contact with the camera



#### PROPER LIGHTING

Present in a well-lit room with the light facing towards you, avoiding windows behind or next to you



#### RECOMMENDED BACKGROUND

Bookshelves or neutral pictures make for distraction-free natural backgrounds



ENVIRONMENT



#### PREPARATION

Test platform, internet connection, microphone, speakers and video



#### WHEN TO MUTE

Be sure to mute your microphone when you are not speaking and unmute when necessary



#### DRESS/OUTFIT

Dress professionally, wearing the same outfit you would in a face-to-face presentation





#### TYPING ETIQUETTE

Try not to type while presenting



#### EATING

Do not eat while presenting and avoid drinking where possible



#### INTERRUPTIONS

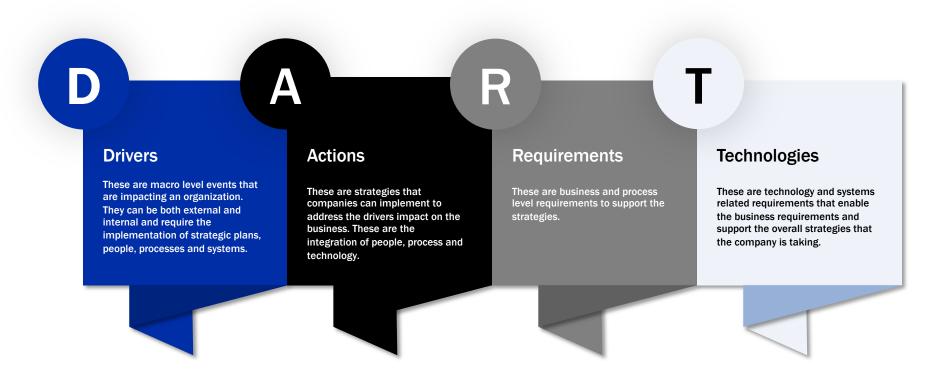
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#### MOVEMENT

Avoid a lot of movement, including hand gestures that may stutter the video

### **DART Methodology**



### **DART Methodology**

#### Drivers (D)

These are macro level events that are impacting an organization. They can be both external and internal and require the implementation of strategic plans, people, processes and systems.

- High total cost of ownership (TCO) of legacy ERP systems
- Need for continuous innovation
- (Shortening of product lifecycles and demand for more customized products, services and pricing models)

#### Actions (A)

These are strategies that companies can implement to address the drivers impact on the business. These are the integration of people, process and technology.

- Create a sustainable digital innovation strategy that enables your company to identify new revenue streams, lower costs, and improve current products and services
- Deploy a cloud based or hybrid business architecture to minimize costs and maximize speed to market
- Prioritize specific business processes for intelligent automation based on ROI and cost models
- Modernize your reporting, dashboard, and insights strategy to provide more real-time and high-value views into your business

#### Requirements (R)

These are business and process level requirements to support the strategies.

- Faster consumer-driven innovation via real-time customer insights
- KPIs and ROI model for business process improvement and business impact measures
- Self-service reporting and analytics
- Platform for custom product and pricing configuration
- Strong data cleansing, data management, and data governance practices
- Elimination of long deployment and upgrade cycles
- Elimination of complex patching and testing cycles
- Business and IT team buy-in for next level ERP via a bottom-up business case
- A clear owner to manage advancement of ERP

#### Technologies (T)

These are technology and systems related requirements that enable the business requirements and support the overall strategies that the company is taking.

- On-premise and cloud-based ERP deployment models
- · Mobile and responsive-based UI
- Highly integrated financial planning and management solution
- Rich developer framework for customizing and extending both cloud and on premise applications
- Powerfully integrated advanced analytics and visualization tools
- Integrated financial, sales and operational planning solutions
- Best-in-class Cloud and onpremise middleware solutions
- End-to Customer data management
- Customer profiling and intelligence

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It provides SAP professionals with invaluable information, strategic guidance, and road-tested advice, through events, magazine articles, blogs, podcasts, interactive Q&As, benchmark reports and webinars.

SAPinsider is committed to delivering the latest and most useful content to help SAP users maximize their investment and leading the global discussion on optimizing technology.



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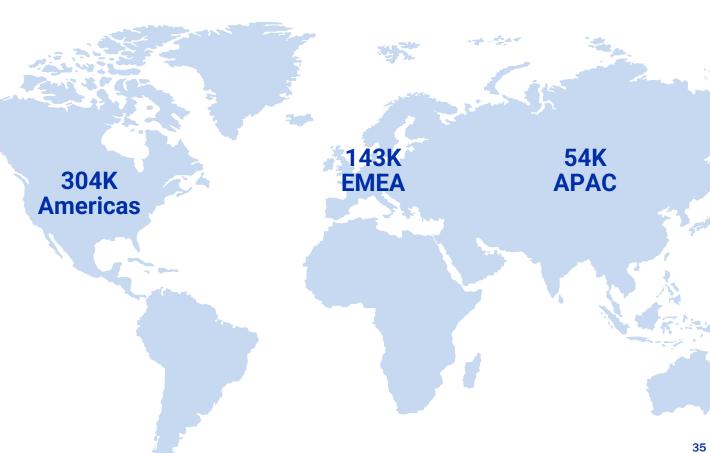
500,183 **ACTIVE MEMBERS** 

> 46,000 COMPANIES

205 **COUNTRIES** 

20% **LINE OF BUSINESS** 

> 80% **TECHNOLOGY**



CIO	ERP Platform & Technology	Application Development & Integration	IT Operations & Administration	Data & Analytics	Security	Financial Management	Governance, Risk & Compliance	Human Capital Management	Supply Chain Management	Customer Experience
SAP Strategy & Technology Investment	SAP S/4HANA	Application Development	Systems Administration	SAP HANA	Application Security	Finance & Accounting Strategy	Governance Strategy	Core HR	Spend Management & Procurement	eCommerce & Website Management
Teams & Organizational Structure	SAP ECC	Integration	Quality & Testing	Data Management & Data Warehousing	Data Security	SAP S/4HANA Finance & Central Finance	Enterprise Risk Management	Payroll	Demand Management & Pricing	Marketing Automation & Analytics
Market Trends & Analysis	Cloud Deployment & Infrastructure			AI & Machine Learning	Identity & Access Management	Financial Planning, Reporting & Analysis	Process Control	Talent Management & Recruiting	Supply Chain Planning	Sales Management
				Robotic Process Automation		Core Accounting & Financial Close	Access Control	Employee Experience	Logistics & Transportation	Customer Service
				Analytics		Tax & Tariff Management	Audit Management	HR Analytics & Workforce Planning	Manufacturing	
						Revenue Management	Fraud Management		Product Management	
						Travel & Expense Management			Asset Management	
						Cost & Margin Analysis			Supply Chain Automation	
						Automation in Finance				