

API & Connectivity Solutions for European Banking Relationships

Modernizing Treasury in a Fragmented Regulatory Landscape

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Agenda

- Session Objectives
- Regulatory & Compliance Updates
 - ISO 20022
 - Blockchain
 - Verification of Payee (VoP)
- Industry Challenges & Trends
- ClearConnect Overview
- Hands-On Activity
- Q&A and Discussion
- Wrap-Up & Next Steps

Session Objectives

By the end of this session, you will be able to:

- Understand key regulatory and market changes in European banking connectivity
- Discuss challenges and friction points in managing payment relationships
- Explore how GTreasury is solving these problems with ClearConnect
- Identify opportunities to modernize treasury workflows

Industry Trends

- **Real-Time Treasury Operations** – APIs enable instant access to financial data, allowing treasury teams to make faster, more informed decisions.
- **Automation & Process Efficiency** – APIs to streamline repetitive tasks, reducing manual intervention and errors.
- **Embedded Financial Services** – APIs are enabling treasury functions to be seamlessly integrated into broader business operations, making financial management more intuitive and proactive.
- **AI-Powered Forecasting & Risk Management** – AI is increasingly being integrated with APIs to enhance predictive cash flow forecasting, liquidity optimization, and fraud detection.
- **Hybrid, Multi-Method Architectures** - Rather than choosing exclusively between SFTP/Host-to-Host (H2H) and APIs, many organizations are adopting a modular “best-of-both” approach.
- **Cloud-Native Treasury-as-a-Service** - TaaS offerings are emerging that bundle connectivity, payment-hub functionality, and compliance into a single cloud service.



ISO 20022 Migration

What is ISO 20022?

- A global standard for financial messaging.
- Key differences from legacy formats like SWIFT MT and domestic payment standards.

Why does it matter for corporate finance teams?

- Richer, structured data enhances transparency and efficiency.
- Future-proofing treasury operations as banks migrate to the standard.

Beyond compliance: Turning a banking shift into a corporate opportunity

- Improved automation and operational efficiency.
- Better alignment with banks and financial partners.

Feature	ISO 20022 (MX)	SWIFT MT (MT)	EDI 820
Message Structure	XML-based (Extensible Markup Language)	Fixed-length, text-based fields	Fixed-length, text-based fields
Data Hierarchy	Highly structured, flexible, and extensible	Less structured, field-based	Flat file format, limited hierarchy
Message Type	Business process-driven (payments, reporting, statements, etc.)	Categorized by message type (MT 1xx, 2xx, etc.)	Focused on remittance advice and ACH payments
Amount of Data	Supports enriched, structured data	Limited data fields, less structure	Limited remittance detail, primarily used in U.S.
Remittance Information	Up to 9,000 characters, structured data (e.g., invoice details)	140 characters, often unstructured	Limited structured remittance information
Reconciliation Efficiency	Easier due to structured data	More manual effort required due to unstructured remittance	Manual processing for large volumes
Cross-Border Payments	Optimized with standardized rich data	Less efficient, may require multiple messages	Not designed for international transactions
Regulatory Compliance	Future-proof, meets new global regulatory requirements	Less aligned with evolving compliance needs	U.S.-centric, limited global application
Scalability & Future-Proofing	Global adoption across banking systems	Phasing out by 2025 (for most cross-border payments)	Legacy format still in use for ACH payments

Blockchain and Real-Time Payments



Instant Liquidity Insights

Improve visibility into inflows and outflows across global entities.



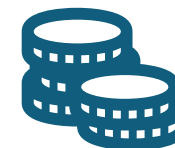
Improved Control and Compliance

Real-time transaction tracking and programmable workflows (via smart contracts) enable better audit readiness and policy enforcement.



Fewer Payment Exceptions

RTP and blockchain networks reduce dependency on intermediaries, cutting errors and delays.



Lower FX and Operational Costs

Blockchain enables direct clearing, reducing correspondent banking fees and enhancing traceability.

Verification of Payee

- **VoP checks whether the name on a payment matches the account number**, helping prevent fraud and misdirected payments.
- It's being **mandated by regulators** in the UK and EU for specific payment types (like Faster Payments and SEPA Instant).
- **Banks run the check before a payment is sent**, flagging mismatches so the sender can verify or cancel.
- For corporates, it reduces **invoice fraud risk** and strengthens vendor onboarding by ensuring account accuracy upfront.
- **Embed VoP checks** into payment workflows or vendor master data management to automate compliance and improve controls.

Industry Challenges

API Integration Challenges

Uneven Bank API Maturity: Many banks still lack fully featured, production-grade APIs—forcing treasurers to juggle hybrid setups or stick with legacy files

Standards Fragmentation: Regional regulations (PSD2, UK Open Banking, FedNow) and proprietary APIs create a patchwork of specs, necessitating custom adapters.

Strict Rate-Limits & SLAs: APIs impose throttling that can impact high-volume payments or bulk reconciliation jobs.

Complex Auth & Security Layers: Mutual TLS, OAuth 2.0, JWT scopes, and certificate rotations add operational complexity.

Distributed Error Handling: Synchronous calls, webhooks, and retry logic require robust orchestration and monitoring to ensure reliable delivery.

API Onboarding Friction: Certification sandboxes, client-credential setups, and bank-specific testing protocols still require significant coordination

File Based Integration Challenges

High Latency & Batch-Only: Relies on scheduled drops and polling intervals

Lengthy, Bank-by-Bank Onboarding: Implementations can take 1–6 months per bank due to differing protocols, file formats, and legacy systems

Static Security Posture: SSH/SFTP's fixed encryption methods can't adapt to emerging threats, increasing cyber-risk and compliance overhead

Manual Error Handling & Monitoring: Failed transfers or checksum mismatches often require hands-on intervention; log parsing is ad hoc and time-consuming.

Scalability Bottlenecks: Spikes in volume can overwhelm infrastructure without elastic capacity.

Fragmented Audit Trails: Directory listings and file timestamps offer limited non-repudiation; proving exactly who sent/received what when is cumbersome.

CCG- Prebuilt Bank Connectors



Faster Integrations/Data

More standard connections means less time getting setup. Faster access to data as well with on-demand requests.



Improved Error Handling

Additional validations and checks can occur as part of the process.



Decreased Implementation Cost

Removes many complex mapping scenarios requiring scripting. Less IT and resource involvement



Security & Maintenance

Modern secure connectivity method, reduced



Get More From Your Bank

Grow from balance reporting and payments to be able to quickly integrate and update new Bank API connections.

CCG- Prebuilt Bank Connectors

General Configuration Steps

- **Setup Access at Bank**
 - Register for API Services with Bank and obtain Credentials
- **Navigate to GTreasury Marketplace Card for Bank**
 - Enter Required Credentials Provided by Bank
 - For Example: Client ID, API Key, API Secret, Certificates
 - Configure Desired Schedule for Current Day and Prior Day Reporting
 - Current Day Standard
 - Start Time: Time of first API Retrieval
 - Interval: 15 to 999 minutes (Default 30 minutes)
 - Days: Monday-Friday
 - Prior Day Standard
 - Start Time: Time of Retrieval
 - Interval: None
 - Days: Tuesday-Saturday
- **Activate Connector**
- **Verify Results via Job Status**

The screenshot shows the 'General (All Flows)' configuration page for a bank connector. It features two main sections: 'Import Current Day Balances and Transactions' and 'Import Prior Day Balances and Transactions'. The 'Current Day Schedule' section is active, showing a 'Start at' field with 'Hours' and 'Minutes' spinners (0 minutes is selected), followed by 'with' and an 'Interval' spinner (30 minutes is selected). This is followed by 'on' and a list of days (Monday through Sunday) with checkboxes. A final 'or' option leads to a 'Day of Month' spinner.

General (All Flows)

Import Current Day Balances and Transactions

Import Prior Day Balances and Transactions

Current Day Schedule

Start at: Hours: [] Minutes: [0] with Interval: [30] on [] Monday [] Tuesday [] Wednesday [] Thursday [] Friday [] Saturday [] Sunday or Day of Month: []

Bank Examples

← Bank of America Balance and Transaction Reporting Version v1

Connector Info

Configuration

History

Security

General (All Flows)

Import Current Day Balances and Transactions

CashPro Client ID

Client Secret

← PNC Balance and Transaction Reporting Version v1

Connector Info

Configuration

History

Security

General (All Flows)

Import Current Day Balances and Transactions

Import Prior Day Balances and Transactions

GTreasury Authentication

GTreasury Company ID

GTreasury Authentication URL

Test Result

PNC Authentication

Authorize

Test Authorization

← CITI Bank Balance & Transaction Reporting Version v2

Connector Info

Configuration

History

Security

General (All Flows)

Import Current Day Balances and Transactions

Import Prior Day Balances and Transactions

CITI Balance Authentication

Signer Certificate Private Key

CITI Client Secret

Signer Certificate Public Key

CITI Client ID

← Deutsche Balance & Transaction Reporting Version v2

Connector Info

Configuration

History

Security

General (All Flows)

Import Current Day Balances and Transactions

Import Prior Day Balances and Transactions

TLS Private Key

Corporate Seal Key ID

GT Balance & Transaction Import URL

TLS Public Key

Signer Certificate Cert Passphrase

Signing Certificate Public Key

Signing Certificate Private Key

External API's

Balances and Transactions: Create, view, or update actual or estimated balances and transactions

Bank Accounts: View existing bank accounts

Bank Account Management: Manage banks, accounts, signers, etc. related to BAM workflow

Entities: Add or remove legal entities to template groups

Forecasts: Create new, view, remove, update, or void existing forecasts

General Ledger: Create and update the ledger information and the chart of accounts

Data Extracts: Journal entries, payments, settlements, and transaction extracts

Payments and Templates: Create and update payments, templates, and payment view

Payments Approval Rules: Create new approval rules for payments

Payment Workflow: Create and update payments and templates, as well as payment view by status



Available Material

- Web Services Guide
- Postman Collection
- Getting Started Guide
- Integrations Guide
- Troubleshooting/Best Practices Guide
- Power BI Integration Guide

Q&A and Discussion

- Open floor for questions
- Addressing common user challenges
- Sharing additional resources



Wrap-Up & Next Steps

Summary of key takeaways

APIs Enable Real-Time, Flexible Treasury Management – Unlike file-based workflows that rely on scheduled transfers, APIs provide instant access to financial data, improving cash flow visibility, automation, and responsiveness to market changes.

Each Integration Method Comes with Trade-Offs – File-based processes are often reliable and well-established but can lead to latency issues and manual intervention. API-based workflows offer efficiency and scalability but require careful management of authentication, rate limits, and bank compatibility.

Choosing the Right Approach Depends on Business Goals – Organizations prioritizing automation, real-time treasury insights, and streamlined workflows may benefit from API adoption. However, many companies may implement a hybrid strategy to minimize disruption.

Where to find additional support

- Review Help articles at the [GTreasury Help Center](#)
- Contact [GTreasury Client Support](#)
- Learn more at [GTreasury Client University](#)

Feedback collection