

GBST Syn~



Cloud-ready
post-trade automation.



Financial markets are evolving rapidly, and pressure continues to build on sell-side firms to do more with less. At the same time, new technologies such as cloud computing, AI, and DLT are transforming the industry and will enable more progressive firms to prosper.

With most post-trade systems having been developed over 30 years ago, is your organisation ready for client-centric, digitised capital markets?

On top of the commercial pressures and legacy technology, organisations are contending with:

- **Regulatory divergence** – managing the complexities of different regimes around the globe
- **Buy-side purchasing power** – increasing digitisation has led to better execution which is driving competition amongst brokers
- **Transparency and data security** – permissioned access to data is crucial to protect confidential and valuable information
- **Client centricity** – clients demand access to their information and the ability to 'self-service'
- **Financial market infrastructure changes** – new clearing and settlement regimes and interfaces to comply with

Organisations don't only have to keep up-to-date with the evolving landscape; it is vital for them to adapt and be ready to take advantage of the opportunities presented by new technologies.

The benefits of APIs and cloud are already well documented, but the rapid take-up occurring in retail financial sectors is only now being replicated in institutional capital markets.

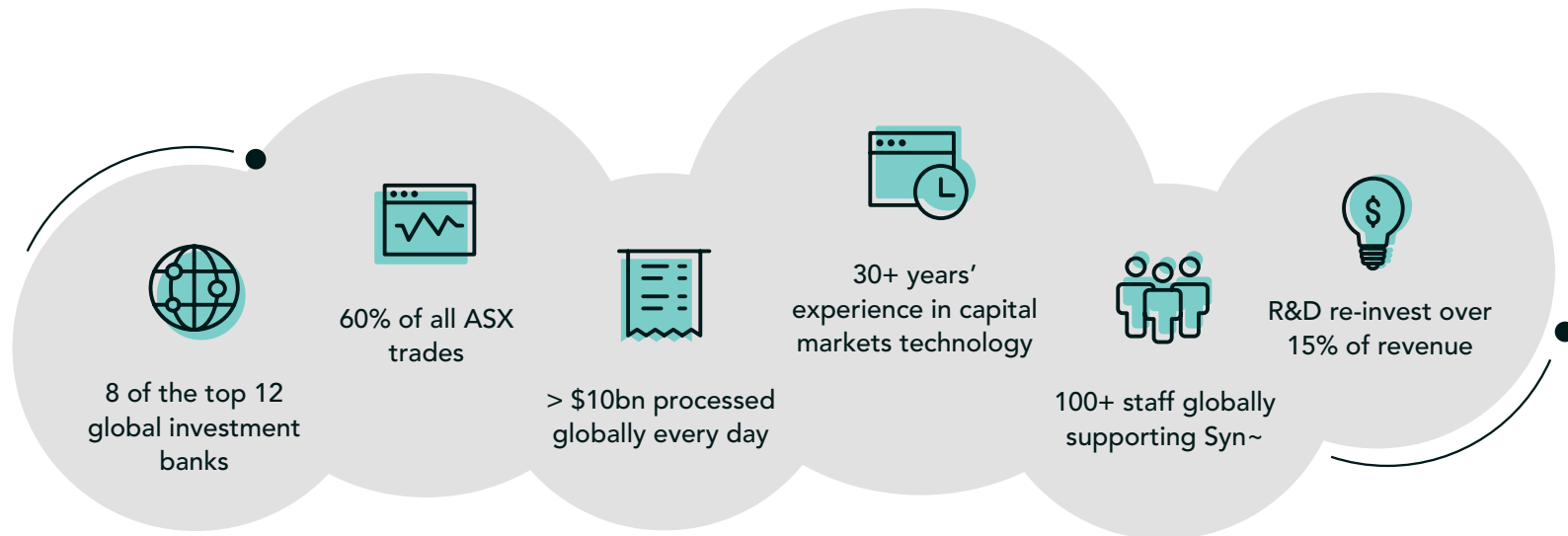
Distributed ledger technology is also finding its niche in financial markets and is seeing increased adoption by market operators.

Adopting modern architecture ensures organisations will be well-positioned to take advantage of the new frontiers of automation and machine learning to improve operations and client experience.

Ensure you're ready now and in the future by adopting the flexible, scalable, and cloud-enabled Syn~ platform to automate your post-trade operations.

Trusted technology partner

GBST's capital markets products are trusted by banks, brokers, and custodians globally to power their post-trade operations.



All correct as of November 2021

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The implementation of Syn~ has improved our operational efficiency by reducing the manual touch points within our post-trade client services. It has enabled us to streamline the operations of our equity trade processing, leading to improved speed and accuracy over our client confirmations.

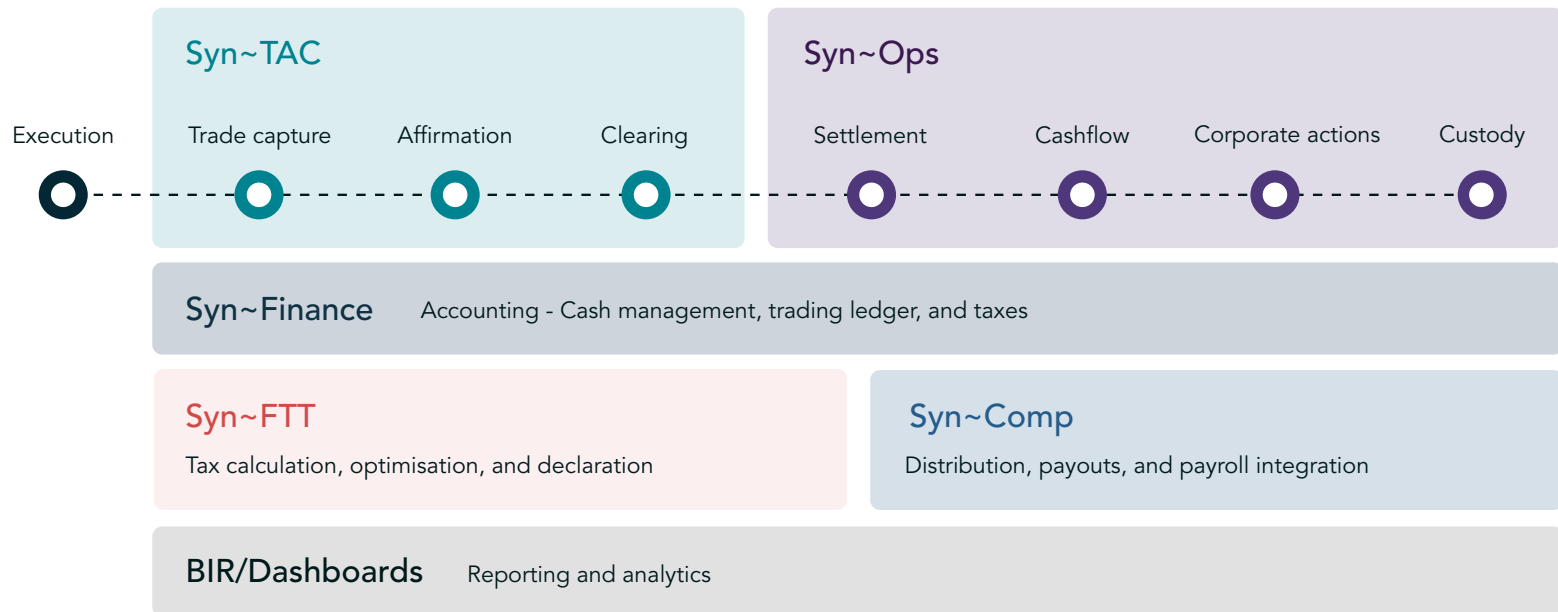
Nigel Swinbank

Middle-Office Manager
Deutsche Bank

Introducing Syn~

GBST's Syn~ suite automates middle and back-office trade processing for banks, brokers, and custodians from allocations to settlement and asset servicing.

The different solutions in the suite can be used as standalone products or be fully integrated, regionally, globally, and by entity.



Why choose Syn~

- ✔ **Lower operating costs through automation** - streamline operations with extensive score-driven decision making and configuration to reduce errors and costs.
- ✔ **Minimise technology costs** - upgrade to a modern technology stack that is cloud-ready and easy to integrate, deploy, and maintain.
- ✔ **Improve data accuracy and quality** - deliver all your operations in a single system to avoid duplicated and siloed data, with exception management tools to resolve issues fast.
- ✔ **Grow your business** - prepare for future growth with a secure and scalable cloud environment that handles multiple entities and regions in a single multi-tenanted system.
- ✔ **Delight customers** - boost sales, satisfaction, and retention by improving SLA compliance, client data access, and processing efficiencies.

Syn~ product vision



GBST's vision is to lower the cost of post-trade operations and help our clients to provide a better service to their customers.

This is achieved through cloud-optimised solutions that maximise process automation and integrate with digital technologies.

Flexible and scalable platform

Syn~ is a workflow-oriented, exception processing solution built on the latest technologies.

It is database independent, browser-based, cloud-optimised, and equipped to scale with your growth.

With its customisable modelling capabilities and extensible rules engine, Syn~ can be configured to achieve edge-case straight-through processing.



Multiple asset classes

Process international equity, ETF, fixed income, and mutual funds assets in the same system



Browser-based interface

Lower deployment costs with a powerful, user-focused, and intuitive access-anywhere interface



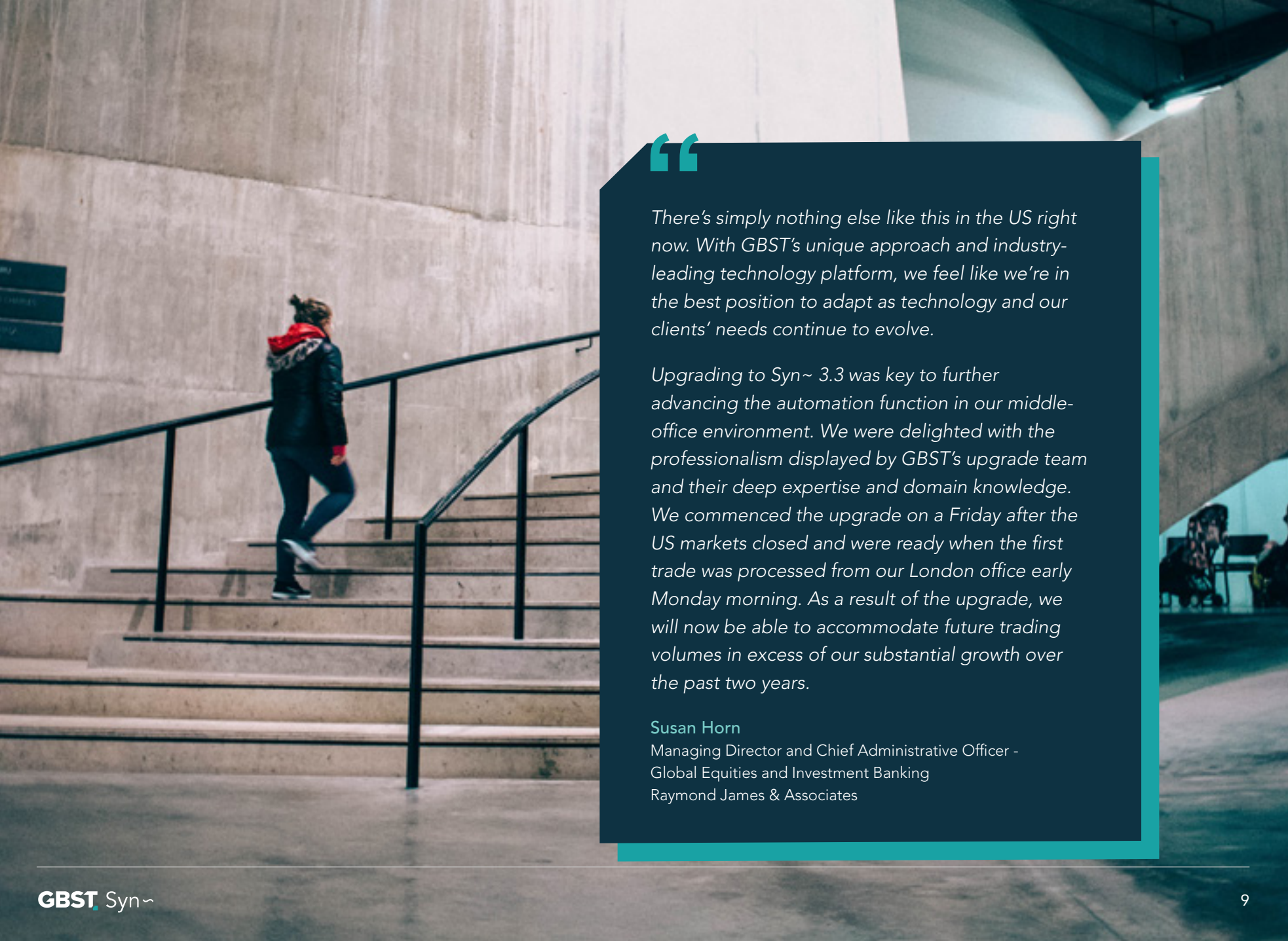
Adaptive real-time workflow

Update configurations for instant system changes without costly code development and upgrades



Exception management

Efficiently scale business by focusing on workflow exception alerts



There's simply nothing else like this in the US right now. With GBST's unique approach and industry-leading technology platform, we feel like we're in the best position to adapt as technology and our clients' needs continue to evolve.

Upgrading to Syn~ 3.3 was key to further advancing the automation function in our middle-office environment. We were delighted with the professionalism displayed by GBST's upgrade team and their deep expertise and domain knowledge. We commenced the upgrade on a Friday after the US markets closed and were ready when the first trade was processed from our London office early Monday morning. As a result of the upgrade, we will now be able to accommodate future trading volumes in excess of our substantial growth over the past two years.

Susan Horn

Managing Director and Chief Administrative Officer -
Global Equities and Investment Banking
Raymond James & Associates



Syn~TAC

Highly automated middle-office processing

Syn~TAC processes trades up to the point of clearing across multiple asset classes. Its powerful automation features minimise manual processes and errors, streamlining your operations and improving client service.

The cloud-based platform features intelligent tools to manage exceptions, correct errors, and enrich trades with settlement and reporting information. It enables you to achieve trading and back-office system independence by consolidating your middle-office processing onto a single instance.

Syn~TAC

Trade creation

Execution/order bookings
Enrichment: Charges, commission, SCIs, and SSIs
Transaction capture and validation
Trade contracting

Trade confirmation

Allocations/affirmation workflow
Block processing
Client confirmation

BIR (Business Intelligence Reporting)

Capital Markets components

(Reference data, standing instructions, and entities)

GBST Syn~Integrator

Loaders
Global reference master
ETC providers
Front-office
Industry data sources

Risk engines
Global back-office
Regional back-office
Syn~Finance
Syn~Ops

Features at a glance

✓ Efficient global operations

- Multi-currency, multi-entity, and multi-region enabled
- Numerous asset classes
- Multi-language confirmations
- Exception monitors and auto-repair capability
- Built-in reporting

✓ Adaptable workflows

- Automatic trade enrichment
- Business rules-based engine
- Inbuilt STP capabilities

✓ Comprehensive connectivity

- All leading ETC providers supported from a single platform including:
 - FIX, DTCC CTM, SWIFT GETC, OASYS, and Iress
- Integrated SSI and account detail enrichment via ALERT



Syn~Ops and Syn~Ops Custody

Efficient global settlements and asset servicing

Syn~Ops allows you to focus on delivering exceptional client service. It enables you to reduce operational overheads and costs by efficiently processing global settlements workflow including integrated corporate actions, financing, and position keeping capabilities.

Syn~Ops supports multiple asset types, currencies, and settlement connectivity allowing you to consolidate global settlements and back-office processing on a single platform.

Syn~Ops

Settlement lifecycle management

SSI enrichment
Instruction matching
Fail management
Instruction generation, shaping, and returns
Settlement tracking

Trade confirmation

Cash management and interest
Collateral management
Corporate actions
Custody and safekeeping
Stock lending and repos
Depository and nostro management
Position keeping and stock ladder

BIR (Business Intelligence Reporting)

Capital Markets components

(Reference data, standing instructions, and entities)

GBST Syn~Integrator

Global reference master
Middle-office systems
Syn~TAC
Industry data sources

Local agents
Asset servicing systems
CSDs/clearing houses
SWIFT

Features at a glance

✓ Efficient global operations

- Multi-asset, multi-market, and multi-currency
- Straight-through processing, instruction matching, and settlement
- Real-time position keeping
- Stock lending and repos
- Automated end-to-end corporate actions
- Real-time client and nominee account balances

✓ Automation through direct connections

- ICSD connections including Euroclear and Clearstream
- CSD connections including ASX-CHESS, SGX-CDP, and HKEX-CCASS
- SWIFT connectivity

✓ Support for value-add services

- Client account credit and debit interest
- Client margin accounts
- Margin account valuations

Syn~Finance

Flexible securities accounting and reporting

Syn~Finance transforms financial operations across global markets and asset classes, reducing your costs and allowing you to meet complex accounting scenarios. It enables you to translate real-time trading activity into ledger accounting entries, while drilling down into business data for a complete audit trail and transparency.

The platform supports multiple ledgers, currencies, and accounting standards, allowing you to consolidate disparate data sources into a global ledger for ease of reporting.

Syn~Finance

Trading ledger

Postings generation
Period-end logic
Intercompany accounting
Interest processing
Enriched GL extract

Commissions and CSAs

Salesperson commission
Sharing agreements
Payroll integration

BIR (Business Intelligence Reporting)

Capital Markets components

(Reference data, standing instructions, and entities)

GBST Syn~Integrator

Corporate GL
Syn~Ops
Global reference master
Back-office systems
Industry data source

CSDs/clearing house
SWIFT
Euroclear

Features at a glance

Single platform for all your trade accounting

- Rules-based trade postings generation
- Configurable accounting periods
- Summary plus detailed daily and periodic account balances
- Full intercompany accounting
- Account interest
- Manual journals with authorisation value limits

Multiple global accounting standards

- IFRS and GAAP accounting standards
- Built-in integration with GBST's Business Intelligence Reporting module
- Standard posting extracts
- Trial balance reporting and enquiry

Real-time profit and loss

- FIFO and average cost inventory P&L
- Full P&L re-work for backdated trading adjustments
- Daily MTM and unrealised P&L postings
- End-of-year retained earnings

Syn~FTT

Financial Transaction Tax (FTT) processing

Syn~FTT is a cloud-based, highly customisable, purpose-built solution to streamline the calculation, reporting, and payment of FTTs.

It offers unmatched transparency, straight-through processing, and features configurable netting rules to enable tax optimisation and automated payment of client rebates, without requiring coding or vendor support.

Syn~FTT removes the need for high-risk manual processes and duplication of effort, by providing accurate tax assessment, optimisation, and declaration across business lines, asset classes, and regions.

It manages all FTT obligations in a single system via a fully audited platform, enabling on-time reporting across jurisdictions, while remaining compliant by paying the correct tax in the first instance and ensuring readiness for future regulatory changes.

Features at a glance

✓ Consolidated solution

- Supports multiple entities
- Tax rules including percentage amounts, fixed fees, minimums/maximums, and banded values for individual jurisdictions
- Configurable workflows
- Real-time exchange rates
- Integrates with other systems using Syn~Integrator

Flexible workflow

- ✓- Add new regions or amend tax rules
- Configurable netting rules
- Automated monthly declarations and client rebates processing
- Complete audit trail for compliance

Scalable and easily accessed

- ✓- Flexible deployment options
- Modern browser-based user interface
- Client and user-level security
- Multi-language capability

Future-ready technology

Syn~ is built on the latest technology to help keep your costs down, support your growth, and ensure the platform can integrate with other technologies as they evolve.

With support for advanced cloud technology such as AWS Aurora database and the latest Graviton 2 ARM CPUs, Syn~ can scale automatically to meet growth demands.



Enterprise Development

- Java (OpenJDK or Oracle JDK)
- N-tier architecture
- Message Bus integration
- Graphical modelling environment (Eclipse)



User interface

- Browser-based rich web UI
- No desktop installation required
- Excel exports and uploads via UI
- GBST BIR integration
- Single sign-on
- Chatbot integration (Syndy)

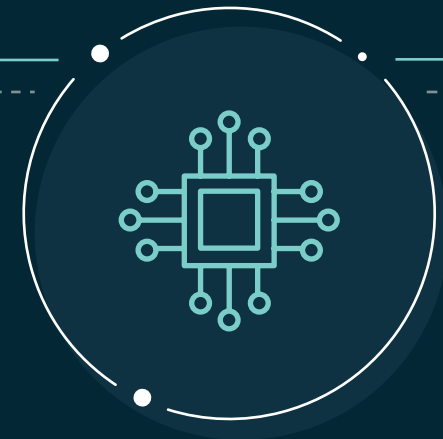


Database choice

- AWS Aurora, Oracle 19, and Postgres 13
- All data/state stored in database
- No stored procedures or triggers
- Oracle RAC and Data Guard support
- Aurora Replicas support
- Reporting views

Infrastructure

- Cloud or GBST hosted
- Intel/AMD or AWS Graviton
- Linux (recommended) and Windows
- Horizontal scalability
- Physical, virtual machine, or container deployment



Integration options

Syn~ connects your post-trade operations to the wider market with a range of integration options and partners.

Clearing and settlement infrastructure



Technology and data vendors



Connected with APIs

APIs enable integration and automation that is increasingly crucial in capital markets. They power straight-through processing by removing the need for manual handling of data between systems.

Syn~ has a comprehensive suite of APIs and access options to suit your requirements.

Syn~Integrator

For more complex requirements, Syn~ can be configured to connect to your systems using Syn~Integrator, GBST's inbuilt integration toolkit.

Syn~Integrator provides numerous pre-built integration components for connectivity and data formats. Most integration tasks can be achieved simply by configuring and connecting, eliminating the need for coding.

Syndy Chatbot

Integrating with Amazon Lex and Symphony messaging, the Syndy chatbot provides self-service capabilities to your end customers. Syndy will handle unknown or ambiguous file loads and respond to queries from customers, freeing up staff for more valuable activities.

Example APIs:

- Party data (organisations, accounts, and SSIs)
- Orders, executions, and crossings
- Trades (block/client/market/FX) and transfers
- Confirmations and allocations
- Stock borrowing and lending
- Settlement instructions and status updates
- Journals and cashflows
- Custody transactions (deposit, withdraw, and settlement)
- Instruments, holidays, prices, and FX rates
- Corporate actions

Flexible deployment options

Syn~ can be deployed using a Software-as-a-Service (SaaS) model or be installed on-premises. The system can be built to specific requirements and is accompanied by ongoing support.



Syn~ in the cloud

GBST has partnered with Amazon Web Services to host Syn~ on a SaaS basis. Syn~ is an AWS-verified solution, ensuring that you will receive a highly secure and robust performance when it's delivered via the cloud.

With rapid provisioning, a sandbox environment can be delivered within days for testing and configuration, enabling you to start your Syn~ journey immediately.

GBST's SaaS services provide high availability and the ability to scale up and down according to your business demands.

GBST's cloud model ensures that your data is always securely encrypted and can be physically stored in the region of your choice.



Syn~ on-premises

On-premises deployment provides another option for large organisations. A choice of enterprise-grade (Oracle) and open source (Postgres) database options coupled with platform-agnostic runtime, ensures you have maximum flexibility and control around your deployment architecture. Syn~ can also be deployed in your own private or public cloud account.

To assist clients with on-premises deployments, GBST can provide a complete range of managed services including database application administration and managed application upgrades.



The project has far exceeded my expectations in terms of quality and has set the bar in my opinion as to how to implement change in securities outsourcing. And with that comes a thank you as we absolutely couldn't have done it without your teams.

Global Head of Securities Outsourcing
Global Investment Bank

Working with us

GBST has vast experience implementing large, complex projects. Our experts will work closely with you to build the best solution, while ensuring the migration is smooth and meets your deadlines.

Overview of how GBST works with clients – from initial engagement to ongoing support and growth.



About GBST

GBST provides financial services technology to the wealth management and capital market sectors globally. The company creates vital back, middle, and front-office technology solutions for wealth managers, life and pension companies, global and regional investment banks, stockbrokers, and fund managers.

Founded in 1983, GBST works with over 100 organisations across Australia, Asia, the UK, and the US. Its wealth management technology supports over 5.5 million investor accounts under administration, its retail broker and clearing clients currently manage over AUD\$200 billion in sponsored HIN, cash holdings, and margin loans, and more than 60% of all ASX trading activity currently travels through GBST's systems, which processed more than AUD\$2.2 trillion in trade value during FY2021.

Contact us for a demonstration or to discuss your requirements.

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