APIS & GLOBAL BANKING

How APIs can transform global banking

Business-to-business application programming interfaces are moving banks closer to clients on the value chain, but there are a host of hurdles that must be overcome first

ith companies expanding into new regions and doing more trade with the rest of the world than ever before, global transaction banking has become critical to the success. Traditionally, major banks have provided these essential services, covering everything from transfers, payments, and cash and asset management, to financing and global trade.

and global trade

It's a money spinner that generates almost \$1 trillion in global annual revenues and is expected to grow to \$7.2 trillion in ten years, according to industry estimates.

expected to grow to \$7.2 trillion in ten years, according to industry estimates. Previously, banks had relied on legacy systems and technologies, such as host-to-host let transfer, to integrate their services with clients' systems. However, while working well for single-step transactions, they struggle with more complicated real-time functionalities such as reconciliation, trade services, collections and supply chain finance. In the face of increasing competition from more nimble rivals, notably fintens and digital banks, banking institutions have had to up their game. Enter business-to-business (B2B) application programming interfaces (APE), which enable banks to simplify transactions and provide clients with a seamless service.

banks to simplify transactions and provide clients with a seamless service. But what are the key challenges involved in migrating to this new technology and how can banks overcome them? What has been the effect of regulation? And how can they capitalise on the biggest growth areas? APIswork in closed networks that integrate banks' services with their clients' enterprise

systems and workflows. They allow banks to scale complex operations and eliminate the need for brokers or service bureaus. Banks including Goldman Sachs, J.P. Morgan and the Bank of America have already taken the lead. Vet, as a technology, it's still in its relative infancy, with a lack of clearly defined industry standards, and is restricted by clunky infrastructure and governance protocols.

governance protocols.

The biggest challenge is in developing a platform that is both user friendly and compatible with clients' systems. Too many APIs, however, are let down by poor or overcomplicated designs, due to lack of development expertise.

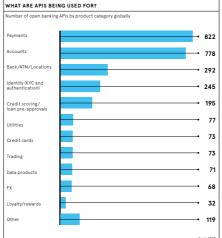
"API banking is a product with unique design constraints and challenges in the same way mobile or web banking are," says David Jarvis, co-founder and chief executive of Griffin, a banking-as-a-service provider. "You need to build out that expertise internally and none of the banks have invested in this to date."

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They also need to be fully secure, well documented and met ever-evolving regulatory changes. Then there is the considerable cost involved too, as well as overhaul of existing systems and processes.

To overcome these issues, banks must embrace technology and change, with a dedicated team focused on developing a strategy and rigorously testing their APIs. They should also collaborate with clients and partners, including fintechs, thus spreading the cost of innovation and reductions of the control of the cost of innovation and reductions. spreading the cost of innovation and reduc-ing time to market.





As an absolute basic first step, banks need to invest in a digital banking platform tha links their gateway and product processors and functions to enable their APIs. That plat

and functions to enable their APIs. That plat-form informs all the modification, authen-tication, authorisation and consent-man-agement capabilities, as well as connecting multiple information sources. Societé Genérale has achieved this by building its B28 SC Markets platform. It pro-vides everything from cash management, financing and security services to global markets and private banking. "By implementing machine learning and combining our cash management and FX [foreign exchange] within our platform, we have created a one-stop shop? says Société Générale's head of execution platforms and UK chief digital officer sobail Raja. 'It ena-UK chief digital officer Sohail Raja. "It ena

URC held digital officer Sohail Raja. It enables clients to do everything from managing their transactions to taking cash positions on different currencies. Citi, meanwhile, has partnered with treasury software providers including in the treasury software providers including it means that the treasury software providers including it means the treasury software providers including it means that the treasury software providers including it means the treasury with the providers of the providers of

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extension of this, but one that helps enable an entire market or industry vertical."

UniCredit has also teamed up with FinDynamic to build its platform, which allows climits to automatically view invoices through a web-based or mobile platform and approve invoices for payment. In September 2020, it launched the first open banking AFI with an IBAN check to enable clients to verify their customers' account details.

The move to AFIs is being fuelled by open banking regulations, such as the European Union's Revised Payment Services Directive (PSD2), and the introduction of the United Payments Interface in India. PSD2 has required banks to release their data in a secure, standardised form, so it can be readily shared between authorised parties online beyond banking directives own," says Vikima Gupta, global vice president at Oracle Financial Services. "These capabilities need access to premium information beyond regulatory mandates that give banks an opportunity to tap into new revenue streams and provide better services to their customers as well maintain customer stickiness."
Simultaneously, artificial intelligence (Al) and automation have vastly improved risk and liquidity analytics and forecasting within treasury management systems.

risk and liquidity analytics and forecast-ing within treasury management systems. Blockchain and distributed ledger techno-ogies have also driven the digitalisation of trade and supply chain finance. "Banks need to accept that the future of finance is decentralised and integrate block-chain and AI into their overall digital trans-formation strategy," says Inpay shead of financial institutions Stan Cole. "They can main a correct part of society by capital. remain a central part of society by capital-

Commercial feature

Banking enters its era of openness

Open finance is enabling big banks to innovate and adapt at greater speed, and facilitating a new banking ecosystem, powered by APIs, that will transform the customer experience



he banking sector has had to evolve significantly over the last decade, but the pace of change is only accelerating. The global financial crisis signalled a need for something different, which combined with the emergence of powerful digital innovation triggered a surge in small upstarts seeking to disrupt incumbents with niche, differentiated services across the banking spectrum. Spoiled by slick experiences from the likes

Spoiled by slick experiences from the likes of Amazon. Uber and Deliveron, consumers desire instant gratification and personalised services from their banks too. Their expectations, however, are more likely to be met by the newer market entrants that, unburdened by legacy infrastructure or vendor lock-in, can increase and dapt to thrends in a faster, more agile way.

Technology enables banks to deepen their relationships with consumers and

their relationships with consumers and create a stickier, more customer-centric service, but they need to find a way to deal with legacy. says Llad Bokovsky, open finance specialist at Axway, a tech company which gives heritage IT infrastructure new life to help organisations to digitally transform. "With lots of new competitors feousing on products like mortgages,

We are going to see all sorts of companies implementing different APIs in the open finance ecosystem

with that, viewing technology as a symbi-otic relationship."

The key to innovating fast enough to keep up with customer expectations is through open finance, which is about using and sharing customer data in a holistic way to enable a better service. Open finance is a vision for a much bigger ecosystem that includes more information about the financial status of an individual, but also connects with other platforms and companies. A smart-

other platforms and companies. A smart-watch, for instance, can telly out about both your health status and your spending status. Nationwide Building Society has created an incubator programme. Open Banking of Good, to help people avoid getting into debt. By utilising data and embracing the principles of open finance, which is about achieving a 500-degree outsomer view, the programme enables people to better see if buying something or taking money out the bank might get them into trouble, by using tooling that can help them avoid financial traps and pitfalls.

tooling that can help them avour mean-car traps and pitfalls. Axway powers digital transformation by integrating all the legacy and modern tech-nology applications in banks, with application programming interface ARPI management that allows them to build marketplaces and ecosystems, which help them to grow. The company also removes complexity for devel-

ecosystems, which help them to grow. The company also removes complexity for developers of banking applications by automating their processes so they can concentrate on transformational frontend tasks rather than legacy integration at the backend.

"Customer churn is a very expensive cost for banks. Providing a better customer experience keeps people loyal and reduces that churn." says Anthony Badger, financial services lead at Axway. "But it is very hard for big banks to introduce new innovative financial products. Many of them are not going to change their backend, those systems of records. We provide a way to integrate with them so they can adapt and respond more quickly to new trends and

an innovation layer that exposes this data

means when somebody purchases a car they can simply press a button to get insurance for their first seven days, without having to provide any more information.

or their first seven day, without having to provide any more information. In the future, these drivers will also be able to subscribe to a service whereby their car can find, choose and pay for their parking space, or order and pay on their behalf when going to offee driver-throughs. The financial ecosystem will be such that, for some customers, it might not even begin with an interaction with a financial services organisation.

"We are going to see all sorts of companies implementing different APIs in the open finance ecosystem," says Badger. "Banks will invite companies to be part of their ecosystem – a o-c-reation of APIs – and there will be unified catalogue of all APIs available. But banks won't be like an island, they will be more integrations between organisations and more offers available to consumers.

"Axway will help organisations create those catalogues and co-creation capabilities, and expose these assets in a secure way. We are part of the core journey for both the customer and the financial services companies."

