



BANKING AS A SERVICE

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The Shifting Sands of Finance: A Glimpse into Modern Banking

Banking is profoundly intriguing. It not only furnishes the vital credit that underpins capitalism, but its historical trajectory is exceptionally coherent. Financial institutions predated the emergence of railroads, automobiles, telecommunication systems, aviation, petroleum enterprises, and technology corporations. Remarkably, many of our preeminent banks today can trace their lineage back to the inception of the United States.

So, does banking still function in the same way? The question is redundant, as the answer is already well-known. Banking has undergone a profound transformation since the early 1700s, evolving from rudimentary, unregulated deposit and lending operations to a sophisticated, meticulously regulated global industry. The advent of central banking in the early 1900s, coupled with stringent regulatory frameworks, has fortified financial stability. Today, the banking sector is epitomized by cutting-edge digital and mobile services, AI-enhanced customer interactions, and a burgeoning emphasis on sustainable finance. This evolution underscores the industry's remarkable adaptability to technological advancements and its responsiveness to the evolving needs of consumers.

Artificial Intelligence (AI) is undeniably revolutionizing the banking sector, with new AI tools emerging daily to disrupt and enhance various industries. Banking is no exception, as AI continues to transform customer service, fraud detection, and personalized financial advice. While we continue to scrutinize and explore the full potential of AI in banking, another buzzword is rapidly gaining traction: **Banking as a Service (BaaS)**. This innovative concept has the potential to become the next big thing, ushering in a new wave of cutting-edge technology akin to the impact of computerization and AI.

Decoding BaaS: The Digital Backbone of Modern Banking

While many of us have a basic understanding of this buzzword, it's essential to delve deeper into its implications for the industry. BaaS (Banking as a Service) refers to the provision of banking products and services through third-party distributors. Essentially, it allows non-bank businesses to offer financial services by leveraging the infrastructure and regulatory framework of traditional banks. This model enables fintech companies, retailers, and other businesses to integrate banking services directly into their platforms, providing a seamless and enhanced customer experience.

From Concept to Revolution: The Genesis of Banking as a Service

BaaS is poised to revolutionize the financial sector by democratizing access to banking services, fostering innovation, and enhancing competition. It allows companies to offer tailored financial products without the need for a full banking license, thereby reducing barriers to entry and accelerating time-to-market. For consumers, BaaS means more personalized and convenient financial solutions, integrated into the services they already use daily. As BaaS continues to gain momentum, it promises to reshape the banking landscape, much like the transformative impacts of computerization and AI.

Solaris Bank- The First Bank in Germany to Move Onto Cloud

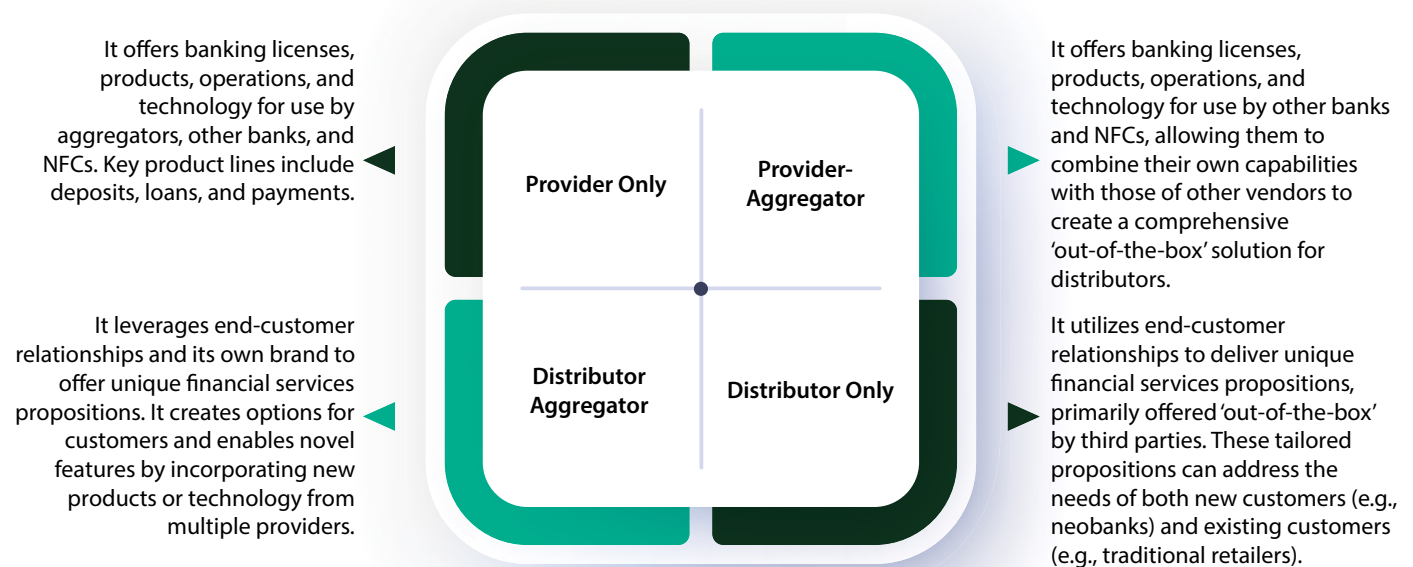
Established in Germany, Solaris Bank pioneered the BaaS model by providing a platform that allowed other companies to offer financial services without needing their own banking license. They empowered the businesses by offering them embedded financial services which enabled them to provide banking services to their own clients on the tools which they already used. By leveraging the power of technology, they are removing the barriers for businesses to offer digital financial solutions. Their proprietary Banking-as-a-Service platform enables any business to **embed** financial solutions in new contexts that were previously unimaginable. Launching customized banking features has never been easier. By leveraging APIs, Solaris Bank enabled businesses to integrate banking services directly into their platforms, facilitating a seamless and enhanced customer experience. This innovative approach democratized access to banking infrastructure, fostering a new era of embedded finance.



Pivotal Fragments of BaaS Value Chain



In this value chain, these have been the core functional pillars, but new hybrid configurations are emerging. The aggregate function is managed either by the provider pillar or the distributor pillar. The new combinations are:



Maximizing Value Across the BaaS Ecosystem: Inclusive Strategies for All Entities

For decades, banks have been the constant provider for core banking services, with a cyclical shift towards computerization, digitization, and automation with each passing decade. Now, in this race for projecting themselves as BaaS enablers, banks have the option to choose the most apt BaaS pillar with which they can associate their bank's vision. This strategic choice allows banks to leverage their traditional strengths while integrating innovative technologies and services.

Many banks are now exploring different roles within the BaaS ecosystem to better align their offerings with market demands and technological advancements. They are examining how they can utilize their foundational capabilities to serve as facilitators and aggregators of financial services, thereby creating more value for their customers and partners.

An e-commerce site integrated with a tech company's payment platform and a bank can offer card issuance and account maintenance. This service helps small businesses track expenses and revenues, providing financial insights. Distributors can access banking services on the same platform without switching tools. Examples include Shopify and Stripe.

BaaS 1st Use Case: Cashier-Less Shopping Concept

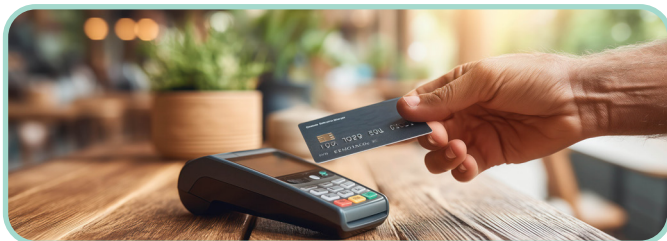


Entering the Store:

The customer enters the store and integrates their app with the store's system (e.g., scanning a QR code or using geofencing).

Shopping:

The store's system tracks the items the customer picks up in real-time, updating the virtual shopping cart (geofencing).



Checkout and Payment Processing (BaaS Stage):

When the customer is done shopping and exits the store, the app calculates the total amount for the items picked up.

Receipt and Confirmation:

The customer receives a digital receipt on their app, confirming the transaction.

The store updates its inventory and records the sale.



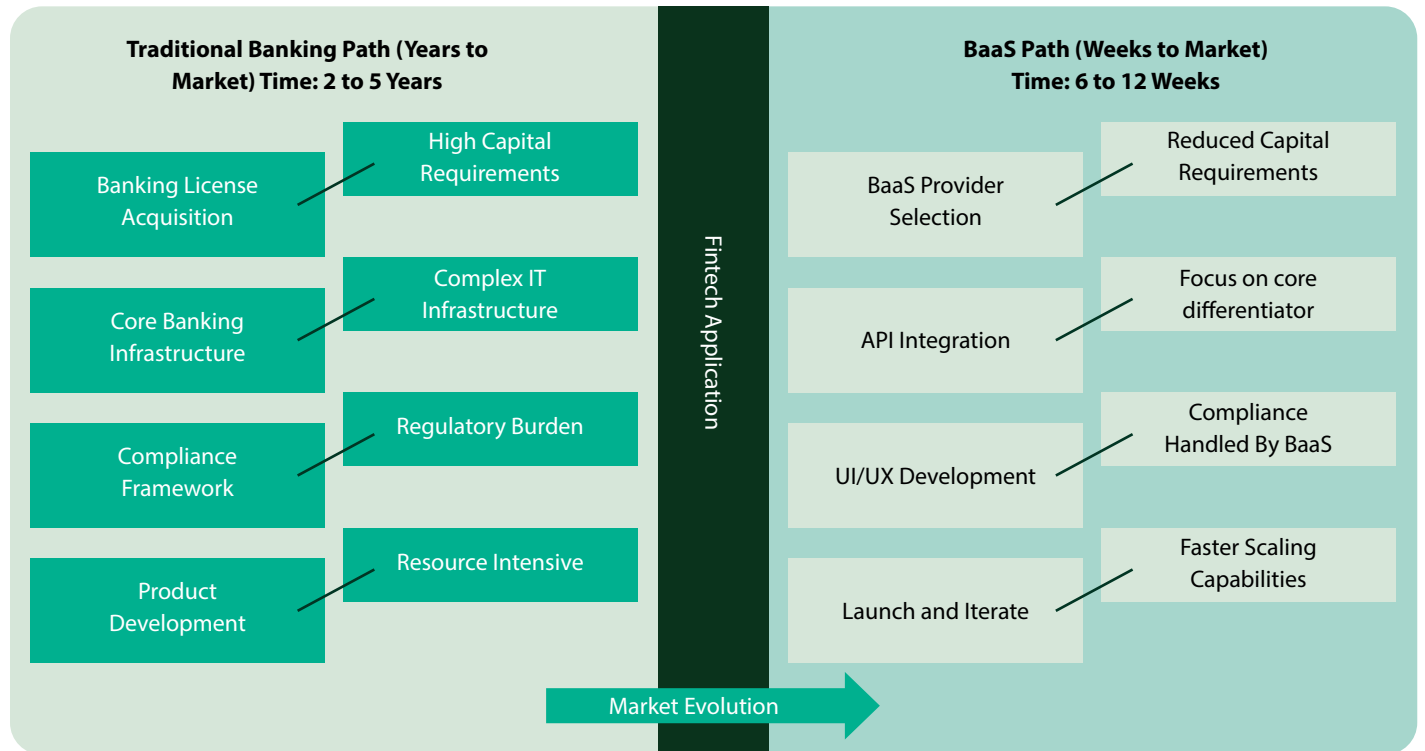
When the customer exits the store, the app calculates the total amount (e.g., ₹500) and initiates the payment process. The BaaS platform handles this transaction by securely transferring funds from the customer's bank account to the store's account. This seamless integration of banking services through APIs is the core of the BaaS stage.

By leveraging BaaS, the digital wallet app can offer a smooth and efficient payment experience without needing to build and maintain complex banking infrastructure.

BaaS 2nd Use Case: Fintech Startup Acceleration

Fintech startups are known for their agility, creativity, and ability to identify unmet financial needs. However, the complexities and regulatory hurdles associated with the financial industry often hinder their growth and innovation. This is where BaaS providers step in as catalysts for change. BaaS providers gained early traction by addressing the needs of Fintechs and select Big Techs.

This use case demonstrates how BaaS enables fintech startups to launch quickly without building banking infrastructure. Here's a breakdown of the functions taken by the traditional and BaaS-enabled path:



BaaS offers Fintechs a rapid path to market with significant technical and business case advantages over building everything in-house or assembling legacy components and partnerships.



Optimizing Presence in the BaaS Ecosystem: Strategic Approaches

In the evolving landscape of Banking as a Service (BaaS), financial institutions face a critical decision: determining their optimal role within the ecosystem. Whether to position themselves as distributors, providers, or part of a provider-aggregator network hinges on the bank's strategic vision and market aspirations. This decision is pivotal in shaping the institution's future in the rapidly growing BaaS market. The leaders in these financial institutes need to undergo a careful strategic analysis to arrive at this decision.

A Holistic Decision-Making Framework: Key Parameters to Consider



1. Core Competencies Assessment

- Evaluate existing technological infrastructure and digital capabilities.
- Analyze strengths in product development, customer service, and regulatory compliance.



2. Market Analysis and Target Audience

- Identify potential partners and competitors in the BaaS space.
- Determine target customer segments and their evolving needs.



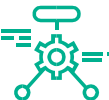
3. Regulatory Landscape

- Assess current regulatory requirements and potential future changes.
- Consider the regulatory implications of different BaaS roles.



4. Investment Capacity

- Evaluate financial resources available for technology upgrades and partnerships.
- Consider the long-term ROI of different BaaS positioning strategies.



5. Organizational Culture and Change Readiness

- Assess the institution's adaptability to new business models.
- Evaluate the workforce's digital skills and identify training needs.



6. Risk Appetite

- Determine the level of risk the institution is willing to accept in pursuing BaaS opportunities.
- Assess potential reputational risks associated with different BaaS roles.



7. Strategic Partnerships

- Identify potential fintech partners or technology providers.
- Evaluate the benefits and challenges of different partnership models.



8. Scalability and Future Growth

- Consider how different BaaS positions align with long-term growth strategies.
- Assess the scalability of various BaaS components and roles.

By carefully evaluating these factors, bank leadership can make informed decisions about their institution's role in the BaaS ecosystem. This strategic positioning will be crucial in capitalizing on the opportunities presented by the BaaS revolution while managing associated risks and challenges.

However, without a rapid and strategic response, BaaS could also introduce new competitors into the financial services market. Incumbent institutions must make strategic decisions about their entry into this growing sector, including which products to offer and which partners to collaborate with.

Driving Financial Institution Growth: The Economic Impact of BaaS

For financial institutions, BaaS presents an opportunity to reach more customers at a lower cost. Traditional banking relies on costly legacy technology and operations, with customer acquisition costs typically ranging from \$100 to \$200, according to Oliver Wyman. In contrast, a new, greenfield BaaS technology stack can reduce these costs to between \$5 and \$35.

By adopting BaaS business models and sharing fees, financial institutions and distributors could see significant revenue growth. Each customer purchasing a financial product on a digital platform could generate between \$100 and \$250 in financial services revenue. As per Forbes Technical Council Report, concept of BaaS is poised to only gain momentum, being projected to reach a mind-blowing \$7 trillion by 2030.

The BaaS Boom: Unpacking the Multi-Billion Dollar Opportunity

The Banking-as-a-Service (BaaS) market has continued its strong upward trajectory, with recent global research reflecting significant acceleration driven by embedded finance, API-powered banking, and digital transformation trends.

According to the latest Fortune Business Insights report, the global BaaS market was valued at USD 22.68 billion in 2025, and is projected to grow to USD 26.47 billion in 2026, eventually reaching USD 108.03 billion by 2034 at a CAGR of 19.20%.

Major companies leading the BaaS ecosystem include **Solaris SE, Mambu, Marqeta, Stripe, Finastra, and Tookitaki**, each driving innovation in API-based financial service delivery across industries.

Caught in the Crossfire: Banks, Fintechs, and the Fraud Prevention Dilemma

As Banking-as-a-Service (BaaS) continues to reshape the financial landscape, a critical challenge has emerged at the intersection of innovation and security. The increasing partnerships between traditional banks and fintech companies have given rise to a complex web of responsibilities, particularly in the realm of fraud prevention. This section explores the growing concerns surrounding accountability in fraud detection and the regulatory response to these challenges.

Blurred Lines of Responsibility

The collaborative nature of BaaS has inadvertently created a gray area in fraud prevention accountability. Traditional banks, accustomed to handling all aspects of financial services, now find themselves in partnerships where the delineation of responsibilities is not always clear. Key issues include:

1. Outsourcing of Fraud Detection

Many banks have effectively outsourced fraud detection to their fintech partners, assuming that these tech-savvy companies are better equipped to handle such tasks. "I'm not responsible for that risk, so it's not my concern" kind of approach adopted by few banks pose a significant threat to banks' accountability towards customers' financial protection.

2. Inadequate Oversight

Some fintech companies, focused on rapid growth and innovation, may not have implemented robust fraud prevention measures that meet the stringent standards expected in the banking industry.

3. Communication Gaps

The lack of seamless information sharing between banks and their fintech partners can lead to blind spots in fraud detection and prevention efforts.

Regulatory Scrutiny and Consequences

Regulators have taken notice of these emerging risks in the BaaS space and are responding with increased scrutiny and enforcement actions:



Penalties and Fines:

Banks are facing substantial penalties for inadequate fraud prevention, even in cases where the shortcomings lie with their fintech partners.



Calls for Clear Accountability:

Regulators are pushing for more transparent accountability structures within BaaS partnerships, emphasizing that banks ultimately bear responsibility for the security of their customers' assets.



Heightened Monitoring:

Financial regulators are closely watching BaaS partnerships, with a particular focus on fraud prevention practices.

Navigating the BaaS Landscape: Critical Success Factors for Banks and IT Providers

BaaS Ecosystem: Distinct Needs for Banks and IT Companies

Regulatory Compliance Ensure adherence to banking regulations in a BaaS model. Develop frameworks for partner oversight and risk management.	Core System Modernization Update legacy systems to support API-driven architecture. Implement real-time processing capabilities.	Data Governance Establish robust data sharing protocols with fintech partners. Ensure data privacy and security in a multi-tenant environment.	Business Model Transformation Develop new revenue streams through BaaS offerings. Create pricing models for banking services as products.	Cultural Shift Foster innovation and agility within traditional banking structures. Build partnerships and collaboration skills with fintech ecosystem.



IT Companies' Key Focus Areas



Banking Domain Expertise

- Develop deep understanding of banking operations and regulations.
- Build knowledge of financial products and services banking domain expertise.



API Development and Management

- Create comprehensive, secure, and scalable banking APIs.
- Implement robust API governance and versioning.



Integration Capabilities

- Develop expertise in integrating with various core banking systems.
- Create middleware solutions for seamless connectivity.



Security and Compliance Tools

- Build strong authentication and encryption mechanisms.
- Develop compliance-as-a-service offerings for fintech partners.



Scalable Cloud Infrastructure

- Design cloud-native solutions for high availability and performance.
- Implement multi-tenant architectures with proper isolation.



Analytics and Reporting

- Develop real-time analytics capabilities for transaction monitoring.
- Create customizable reporting tools for banks and their partners.



Partner Ecosystem Management

- Build platforms for partner onboarding and management.
- Develop tools for monitoring partner performance and compliance.

By focusing on these key areas, IT companies and banks can position themselves effectively to capitalize on the growing BaaS market opportunity.

The Way Forward

To address these challenges, stakeholders in the BaaS ecosystem must consider the following:



Clear Delineation of Responsibilities

Partnerships should include explicit agreements on fraud prevention duties and accountability.



Enhanced Due Diligence

Banks must conduct thorough assessments of their fintech partners' fraud prevention capabilities before and during partnerships.



Collaborative Fraud Prevention

Developing integrated fraud detection systems that leverage the strengths of both traditional banks and fintech innovators.



Regulatory Compliance Focus

Both banks and fintechs need to prioritize staying abreast of and adhering to evolving regulatory expectations in the BaaS space.

As the BaaS model continues to evolve, addressing these fraud prevention challenges will be crucial for maintaining trust, ensuring compliance, and realizing the full potential of bank-fintech collaborations.

Summing Up and Moving Ahead

Banking as a Service (BaaS) has emerged as an irrefutable paradigm shift in the financial sector, reshaping the landscape of banking operations and customer engagement. The continuous innovation and investment in this space underscores its growing significance and long-term viability. For banks, BaaS represents not just a technological upgrade, but a strategic imperative that promises enhanced value creation and competitive differentiation. As this trend accelerates, IT companies find themselves at a critical juncture, evolving beyond mere architects of BaaS infrastructure to become strategic advisors. Their role now encompasses guiding financial institutions through the complexities of BaaS adoption, marrying technological expertise with deep industry insights to facilitate a seamless transition into this new era of banking.

Appendix

<https://www2.deloitte.com/content/dam/Deloitte/cn/Documents/financial-services/deloitte-cn-fsi-importance-of-banking-as-a-service-en-211019.pdf>

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[Banking as a Service Market Size, Share | Growth Report \[2034\]](#)

About the Author



Kritica Sharma is an IT Lead Consultant and Functional Architect specializing in Microsoft Dynamics 365 and the Power Platform. Before entering the IT space, she spent eight years in the banking industry handling Large-Ticket accounts, Credit, and Digital Banking operations. This unique blend of frontline banking experience and technical proficiency allows her to drive high-impact CRM implementations across global sectors. An accomplished researcher and communicator, she focuses on digital transformation and the integration of AI within the banking landscape.

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