

TCS capabilities for card service providers

Banking & Financial Services



In the past decade, digital payments – especially card transactions – have become the norm. Card transactions with Visa, MasterCard, UnionPay, American Express, Discover/Diners club, and JCB brands are projected to reach USD 642.01 billion in 2025, up 41.4% from 2020. Card transaction is a complex multi-level process involving multiple financial institutions. Several card acquiring and issuing platforms in use today are legacy systems that limit the ability to introduce innovative products, onboard new customers, and cater to the varied needs of changing consumer behavior.

TCS understands the importance of next-gen card payment systems and the transformational effort needed in guiding the card acquirers and issuers to meet the future needs and market expectations. TCS capabilities in card processing can help market players with smooth transformation of their mission-critical systems.

Overview

Amid the constantly evolving regulations capping the interchange and other revenue streams for these financial institutions and the increasing shift towards digital transactions, card acquirers and issuers operate predominantly with ageing infrastructures. These systems do not meet the current requirements for high-performance computing. This means financial institutions are unable to peg advanced technology-infused offerings. At TCS, we believe digital transformation and progressive technologies should not be limited to only applications that are crucial for customer touchpoints but also to the core systems.

TCS domain expertise in the entire card value chain, the experience gained in legacy transformation initiatives and the strong technology footprint can be best leveraged for all modern-day needs of card acquiring, issuing, switching and routing, operations, payment gateway services, and POS/ATM vendor companies. Our deep understanding of the business and technology coupled with our global presence in execution can help achieve seamless transformation of legacy applications to targeted next-gen platforms with minimal impact to business.

Our Solution

We believe the future of payments is largely underpinned by lean and nimble platforms that can adapt to change with in-built decision-making capabilities.

- **Next-gen reference architecture assessment:** Creation of a reference architecture framework that can help assess platform maturity in terms of functions, processes and technology and help identify gaps in delivering next generation user experience.
- **Nurturing an eco-system of partnerships:** Card companies can exploit TCS' Pace Ports™ and Co-innovation Network (CoIN), which constitutes start-ups, academia and FinTech players.
- **Diverse client base:** TCS has executed complex transformational projects across card products for a diverse set of issuers, acquirers, payment schemes, retailers, standards organizations, and regulatory agencies.
- **Advisory groups for cards:** TCS has a focused cards workgroup with the mission to engage and collaborate with industry stakeholders such as the Banking Information Architecture Network (BIAN), to curate, design and implement Next Gen Cards payment systems.
- **Foundational, functional and emerging services:** Foundational services include modernization and integrations across products, PCI DSS assessments and controls. Functional services include digitization issuance, wallet integrations, tokenization and API solutions while emerging services include blockchain based loyalty, robotic ATM Testing, dynamic offers and real time settlements.

Benefits

- Domain Experts from TCS offer reference frameworks, best practices, learning, and Industry perspectives curated from the wide range of payment projects implemented across geographies. TCS' breadth of domain capabilities in cards, market engagements, and proven methodology makes us uniquely qualified to consult, design, develop and implement for all facets of the card business.
- TCS' Banking Technology Group comprising senior architects across key technologies can help design and review the next-gen platforms. The group can also drive PoCs and thought leadership in emerging technologies relevant to cards.
- TCS CoIN network can help card companies collaborate, develop and test innovative proof-of-concepts much faster. This, in turn, nurtures "fail fast learn fast" culture and helps accelerate product developments and reduce time to market.



The TCS advantage

- TCS has been at the forefront of cards and payments for more than three decades. We currently serve 75+ clients globally across 45+ countries and has 9500+ associates working in active assignments in cards
- Experience in PoS, ATM, Transaction switching, payment gateways, and clearing and settlement of card transactions across all geographies. TCS has extensive experience in system integration for major card product suites and has secured alliance partnerships with many product vendors
- Experience in Technologies covering Cyber Security, Secure Token Exchange, Compliance execution - PCI DSS and 3D Secure
- Machine First Delivery Model (MFDM) – 110,000 foundational AI-ML Engineers, 15,000 MFDM Designers, 100+ MFDM architects
- Experience in API Platforms - Microservices farm, Sandbox and Developer Portals for card clients
- Experience in Cloud Native applications and integrations – 850+ experienced practitioners, 25+ accelerators, TCS and MS joint containerization offerings
- Industry Alliances – AI, Cognitive Intelligence, Cloud and Big Data
- Innovation and Co-creation labs – BFSI Open Banking Garage, TCS Digital Interactive, CoIN, and TCS CUBO

Contact

For more information on TCS' Banking, Financial Services, and Insurance (BFSI) unit,

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