

SOLUTION BRIEF

Intellect's iKredit360 Cards Solution

Business Challenges

The world of credit and payments is undoubtedly one of the most disrupted domains in the financial world. Boundaries of ecosystems are getting blurred while possibilities are being redefined, whether it is for a Bank, Non-Banking Financial Institution, ecommerce player or even a Fintech. This has led to reimagining customer experiences, with a focus to be the primary engagement point of target customers.

A state-of-the-art credit platform with a country-ready comprehensive marketplace allows Banks and Financial Institutions to collaborate and accelerate business growth efficiently. The platform can also help banks in enhancing customer experience with an end-to-end digitisation of the credit process and increasing customer lifetime value while mitigating risks through a real-time 360-degree customer view.

The Solution

iKredit360 Cards solution is a comprehensive, fully digital payment card application that addresses all credit cards, debit cards, prepaid cards and retail card business needs. The solution covers end-to-end credit lifecycle management including issuing, servicing, fraud monitoring, loyalty management and delinquency management.

iKredit360 Cards solution, built on a modular architecture, brings with it the convenience of being a one-stop solution for any entity. Rather than investing resources on customizing the platform, it supports multiple organizations, multiple currencies & follows a multi-tenancy architecture. It is highly scalable and a cost-efficient system, benchmarked for supporting more than 10 million cards, 12 million+ transactions and 1000+ concurrent users.

Intellect Auth System

Intellect Auth system has the capability to seamlessly connect with the Schemes end points either directly or through the Bank's Switch. In case of direct end point integration with the Schemes, all card validations (PINs, CVVs & Cryptograms for magnetic stripe and EMV chip cards) are handled by the Intellect Auth system with the help of Hardware Security Module (HSM) and transmits the response straight to the Schemes. The Intellect Server acts as a mediator between the database, HSM and the scheme endpoints.

payShield 10K Integration Requirement

It was critical to manage the cryptographic keys, which is the backbone for ensuring the security and compliance of sensitive payment data throughout the entire card lifecycle, from card issuance, PIN Management to transaction processing. To meet the strategic ambitions and design solutions and to seek efficiency and enhanced security, Intellect's iKredit360 solution adopted a dedicated payment HSM - Thales payShield 10K, for high-level authentication, to generate and secure cryptographic keys, handle computationally intensive cryptographic processes and accelerate overall performance.

Thales payShield 10K HSM provided a tamper-resistant environment to store and manage



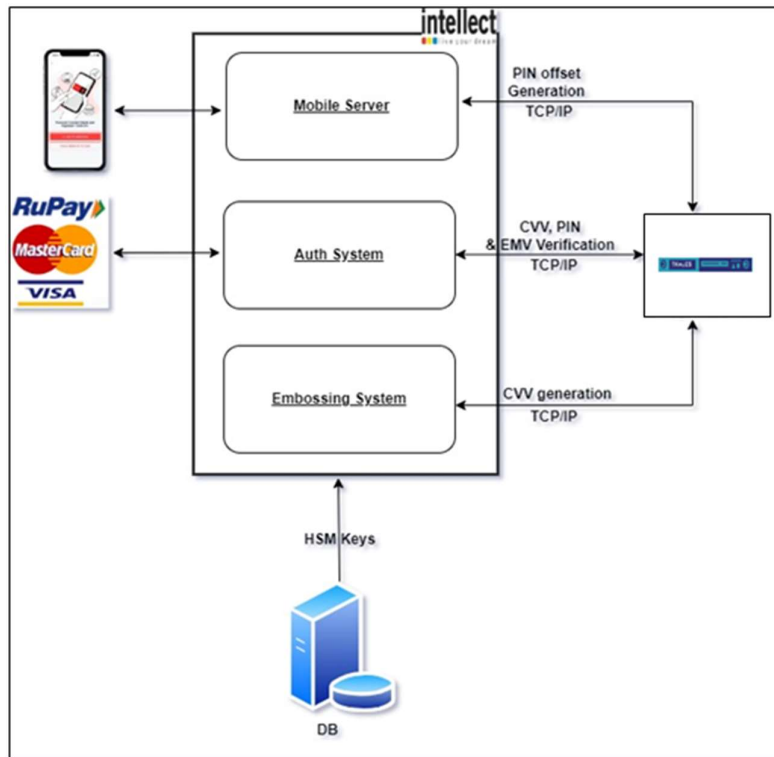
cryptographic keys, offering a high level of security, compliance, and performance, making them an essential part of any payment processing infrastructure. Further, to strike a balance of data security and high performance for new age technologies and to offload the cryptographic processing from the host system, it is imperative for Cards Management System to leverage the technology of HSM, mitigate risks and drive a superlative experience.

Key Command list used with payShield 10K integration:

Below are the commands list used by Intellect application iKredit360 with payShield 10K integration:

- FW - Generate a VISA PIN Verification Value (of a customer-selected PIN)
- EC - Verify an Interchange PIN Using the VISA Method
- CW - Generate a Card Verification Code/Value
- CY - Verify a Card Verification Code/Value
- KW - ARQC Verification and/or ARPC Generation (EMV 4.x)
- M8 - MAC verification/generation

Architecture Diagram



This is a typical architecture setup. However, differentiation lies in how banks leverage iKredit360 Cards Solution to reimagine their credit card processes

Benefits and Features

iKredit360 Cards with Thales payShield HSM provide secure environment for key generation, storage and management, compliance with Data Protection Regulations, secured transactions in the payment system, thus empowering the Banks to stay at the forefront of innovation. The platform is designed keeping the needs of its customers – the banks and bank users at the centre.

The features of iKredit360 solution, includes:

- 4C Framework (Control, Comprehensive, Collaboration, Conscious)
- Seamless On-boarding
- Rapid Plastic Issuance
- Integrated Instalment Module
- Multiple Credit Lines
- Transaction Level Pricing
- Robust Collections Module
- Real time Fraud Assessment
- Comprehensive Loyalty Module
- Virtual Cards
- Customer Self Service & Mobil App

Other Products from Intellect Design Arena

1. Consumer Banking

- Core Banking Solution
- Lending Solution

2. Brokerage Solution

- Intellect Capital Cube
- Quantum Central Banking

3. Corporate Banking

- Liquidity Management
- Virtual Accounts
- Payments Solution
- Contextual Banking Experience
- PayCash – CX
- Corporate Treasury Exchange
- Digital Transaction Banking

4. AI Products

- Wealth Qube
- WealthForce.AI
- Insurance
- ESG EDGE
- Capital Markets
- Risk Analyst
- Magic Submission

About Intellect Design Arena

Intellect Design Arena Limited (Intellect) is a global leader in Financial Technology for Banking, Insurance and other Financial Services. Intellect is the brand that progressive Financial Institutions rely on for digital transformation initiatives. It offers a full spectrum of Banking and Insurance technology products through its three lines of businesses i.e., Intellect Global Consumer Banking (iGCB), Intellect Global Transaction Banking (iGTB), and Intellect AI. With a rich suite of products across the organization, Intellect is an authority on vertical and integrated products that enable institutions to meet their ambition to be the principal service provider to their customers.