



**FSS**  
POWERING  
PAYMENTS

# FSS REAL-TIME PAYMENT

Powered by FSS BLAZE™

Supercharge your transactions  
with lightning speed and scale

[www.fsstech.com](http://www.fsstech.com)  
[www.fsstech.com](http://www.fsstech.com)

# POWER UP YOUR DIGITAL PAYMENTS, FOR TODAY AND TOMORROW

**FSS Real-time Payment is now powered by  
FSS BLAZE™ - FSS's New Payments Platform.**

Banks and payment players have long grappled with the limitations imposed by heavy, monolithic architectures. The challenges of scalability, complexity, maintenance, and slow-release cycles have hindered their ability to keep pace with the industry's high demands. These constraints have underscored the need for a more agile, scalable, and resilient technological framework in the banking and payments industries.

**Built to scale, built to adapt, built to succeed – FSS's new and improvised Payment Gateway is a full-stack, white-labeled solution backed by FSS BLAZE™ – FSS's Payment Platform. A modern, flexible, microservices framework-based technology platform that ensures an unmatched payment experience for all and propels payments innovation at the speed of commerce.**

**Microservices  
Based**

---

**Faster  
Time-To-Market**

---

**Hybrid-Multi Cloud  
infrastructure**

---

**Cloud Native &  
Kubernetes Native**

---

**Seamless and Risk-Free  
Migration**

---

**High  
Observability**

---

**Smart AI/ML  
Backed Insights**

---

**Anti-fragile and  
Fault Tolerant**

# BLAZING FAST PAYMENTS FOR YOUR ECOMMERCE

**FSS BLAZE™**  
*A cloud native  
microservices  
payment platform*

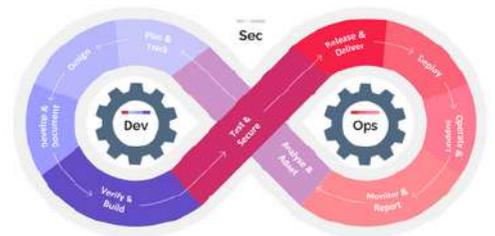
Introducing FSS BLAZE™, a cutting-edge payments platform that redefines the payment solutions landscape. Built on a robust microservices architecture, FSS BLAZE™ offers seamless growth, uninterrupted performance, and effortless integration. With this new payments platform, you can navigate through the rapidly changing market demands, ensure reliable, secure, and compliant payment processes, and safeguard sensitive data while monitoring transactions effectively with advanced security features.

-  **Performance**
-  **Scalability**
-  **Availability**
-  **Durability**
-  **Resilience**
-  **Extensibility**
-  **Agility**
-  **Usability**
-  **Observability**
-  **Consistency**
-  **Compliance**
-  **Security**

**Experience the transformative power of FSS BLAZE™, where innovation and excellence converge to reshape the future of payments.**

## STAY AHEAD OF THE COMPETITION WITH BLAZE AT THE CORE OF YOUR PAYMENT SOLUTION

FSS BLAZE™ embodies the future of payment technology, meticulously designed with modern principles in mind. By re-imagining payment boundaries, embracing data-driven decisions, and ensuring security at every stage, FSS BLAZE™ paves the way for domain innovation and cost efficiency.



With scalable, resilient, and hybrid multi-cloud infrastructure, FSS BLAZE™ stands as a future-proof solution, backed by **Dev-Sec-Ops** practices, adhering to global standards, regulations, and data security.

# WHY FSS REAL-TIME PAYMENT?

**6600+**

Transactions  
Per Second

---

**99.99%**

Success  
Rate

---

**12+**

Major Indian Banks  
Powered by FSS RTP

---

**6000+**

Merchants  
Onboard

---

**400 Million**

Transactions  
Processed Monthly

# POWERING PAYMENTS ON THE FAST LANE

**Now transact within seconds and get immediate access to funds with payments which are processed instantly.**

FSS Real Time Payments (RTP) is a fast, secure, 24/7 active, account-to-account electronic fund transfer solution designed to scale at a population level in a fast-paced payments environment.

#### **FSS Real Time Payments**

- Simple addressing with Virtual Payments Address (VPA)
- Cloud-native infrastructure with microservices
- Pluggable app for marketplaces
- SDK and REST API integrations
- Flexible to deploy on both Licensed and Hosted models

Banks today need to provide instant account to account to transfers for both P2P and P2M use cases. However, with high usability, there is also an increase in number of micro-payments, where the number of transactions to total value processed is higher than any other lane. The ability to handle micro-payments at a macroscale, while ensuring high availability and ensuring low infrastructure costs makes FSS RTP the ideal solution to bring real-time payments at population scale.

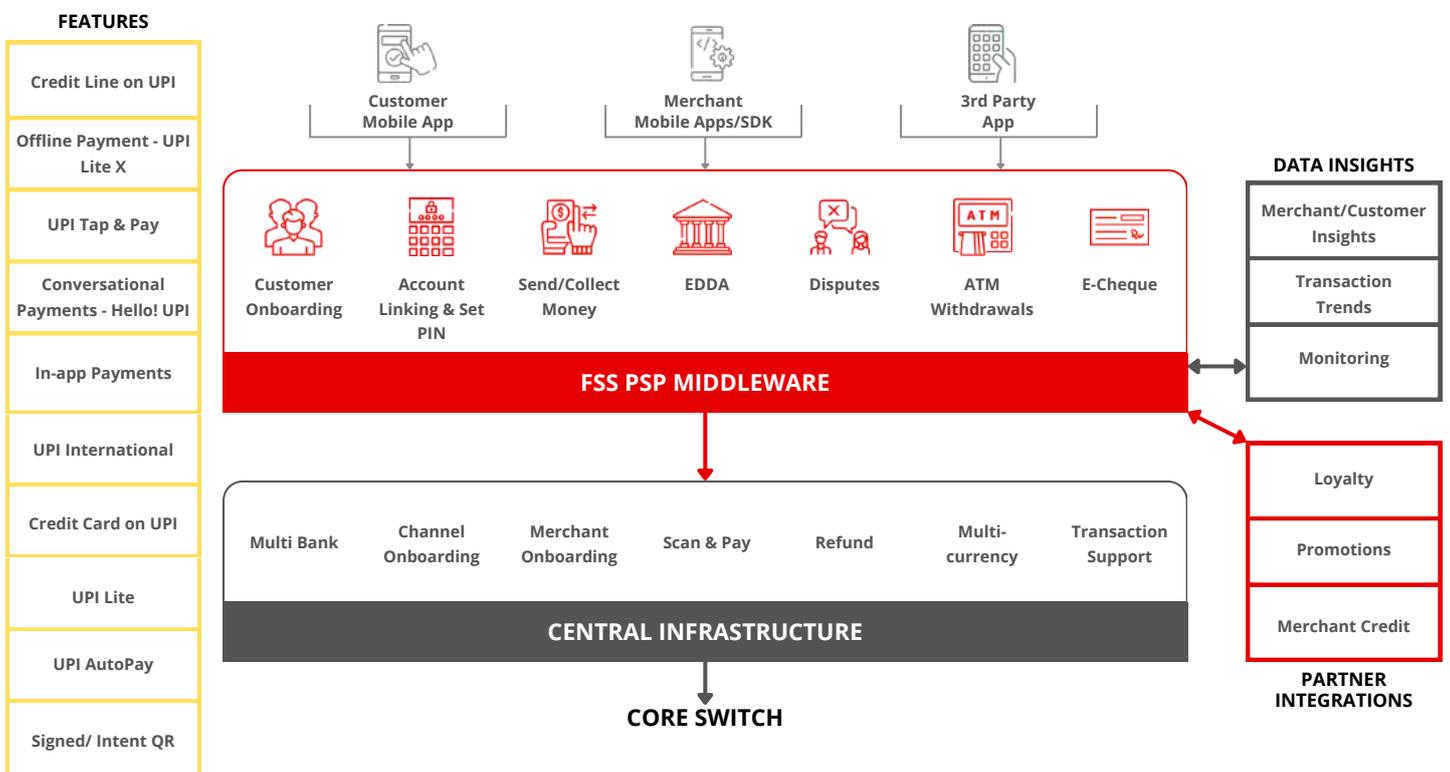


**HANDLING MICRO-PAYMENTS  
AT MACROSCALE**

# INVESTING IN TOMORROW'S TECHNOLOGIES

FSS RTP comes with a powerful PSP layer connecting the central infrastructure with banking systems.

- **One app for all bank accounts:** Customer can link multiple bank accounts in a single application.
- **Dynamic and Static QR:** Generate custom one-time use QR for a specific amount, or create a static QR for making any payment to a specific address.
- **Two Factor Authentication:** Provide high security for transactions with 2FA - device binding and security PIN. Additionally, customers can also secure the app with a biometric login.
- **AutoPay:** Enable one-time or recurring standing instructions through real-time payments.
- **Bill Payment:** Provision utility bill, credit card bill, tax, rent, insurance payments and more in a single application, and never forget to pay them on time by scheduling transactions.



# FEATURES THAT KEEP UP WITH THE FUTURE

---

## UPI Tap & Pay

Empowering users with the convenience of contactless payments, UPI Tap & Pay utilizes NFC-enabled cards linked to UPI IDs and QR codes. This streamlined payment method offers enhanced security and efficiency, making transactions smoother than ever before.

## In-app Payments

Businesses can now integrate UPI payments directly within their mobile applications, streamlining the payment process for customers. This in-app payment solution reduces steps, increases success rates, and enhances overall customer experience.

## Credit Card on UPI

The integration of RuPay Credit Cards with UPI IDs offers a digitally enabled credit card lifecycle experience. This seamless linkage provides customers with enhanced usability and security while enabling merchants to tap into the credit ecosystem with asset-lite QR code acceptance.

## Hello! UPI

Conversational payments take center stage with Hello! UPI, a pioneering feature that enables payments through voice commands. Supporting both English and Hindi, this innovative system allows users to initiate transactions seamlessly across UPI apps, telecom services, and IoT-enabled devices.

## UPI International

Breaking geographical barriers, UPI payments have expanded to international territories, catering to the needs of Indian travelers and Non-Resident Indians (NRIs). With accessibility in countries like France and UAE, UPI International facilitates seamless cross-border transactions.

## UPI Lite

Designed for low-denomination transactions, UPI Lite simplifies payments within the range of INR 100 to INR 500. Operating as an online wallet without the need for a UPI PIN, this feature enhances convenience for users, particularly in scenarios where speed is of the essence.

# FEATURES THAT KEEP UP WITH THE FUTURE

---

## Cash Withdrawal from ATM

The ability to withdraw cash from ATMs via UPI authentication marks a significant advancement in user convenience. By eliminating the need for physical cards, this seamless and interoperable experience enhances accessibility and streamlines the cash withdrawal process.

## IPO on UPI

Participating in Initial Public Offerings (IPOs) is now more convenient than ever with UPI integration. By using UPI IDs as a payment option, investors can seamlessly subscribe to IPOs on major stock exchanges, streamlining the investment process.

## Signed Intent & QR

With enhanced security measures such as signed QR and intent, UPI transactions are fortified against tampering and unauthorized access. Users can trust the authenticity of recipients, ensuring secure and expedited transactions.

## UPI Autopay

Facilitating recurring payments, UPI Autopay empowers customers to set up e-mandates for various services, ranging from utility bills to subscriptions. This automated feature simplifies payment management and ensures timely transactions with minimal manual intervention.

## Invoice in the Box

Enhancing transparency and verification, Invoice in the Box enables users to review transaction details before making payments. This feature, available for invoices from verified merchants, instills confidence and trust in the payment process.

## UPI 123

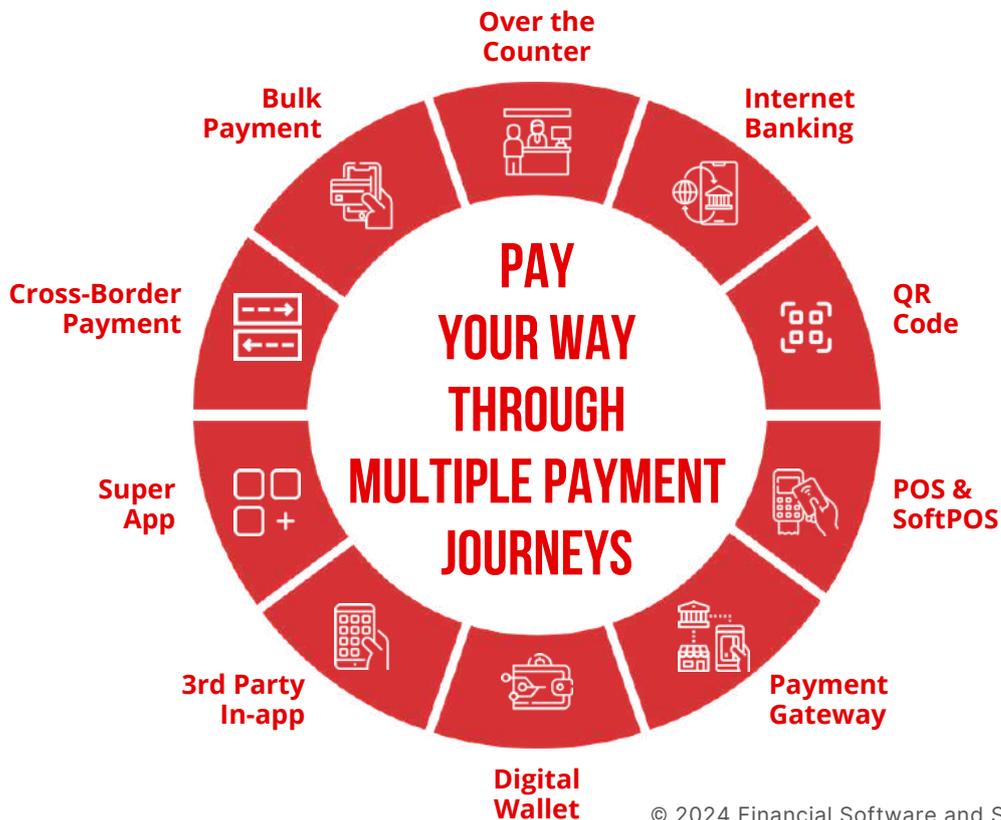
Simplifying payments further, UPI 123PAY allows users to initiate transactions over a phone call through the bank's IVR number. This accessibility feature expands financial inclusion by eliminating the need for smartphones or internet connectivity.

Making your business reach full potential

# UNLOCKING COMMERCE FOR MERCHANTS IN REAL-TIME

**FSS RTP provides a host of features that make it a comprehensive solution for all kinds of merchants.**

- Easily integrate with SDK solution and gain access to RTP
- Instantly onboard merchants with an improved merchant portal
- Collect money easily via a Virtual Payment Address – phone number or a custom ID
- Create a Static QR for the storefront, or Dynamic QR generated for specific Invoice
- Enable international transactions for customers in their local currency
- Create invoice in a box by sending invoice to the customer through a payment URL



Making your business reach full potential

# UNLOCKING COMMERCE FOR MERCHANTS IN REAL-TIME

---

In addition to revolutionizing consumer payments, the Unified Payments Interface (UPI) has emerged as a game-changer for merchants, offering a suite of powerful solutions to streamline business transactions. Let's explore how UPI Merchant Acquiring Solutions are reshaping the landscape of commerce:

- **Merchant Onboarding:** With a seamless merchant onboarding solution, UPI simplifies the process of bringing businesses into the digital payments ecosystem, enabling swift and hassle-free integration.
- **Multiple Merchant Integration Option:** Businesses can swiftly integrate UPI APIs or SDKs, facilitating quick setup and easy integration across multiple merchants, ensuring a smooth transition to digital payments.
- **Automatic Payment Reminders:** Merchants can now send automatic payment reminders using payment links, eliminating the need for customers to navigate through the Virtual Payment Address (VPA) process. This feature enhances convenience and encourages prompt payments.
- **Create and Share Multiple Payment Links at Once:** Empowering merchants with efficiency, UPI enables the creation and sharing of multiple payment links simultaneously, streamlining payment collection processes.
- **Powerful Dashboard:** Customizable dashboards tailored to business needs empower merchants to track transactions across all outlets in real-time. From analyzing transactions to issuing refunds, all operations can be managed efficiently from a single merchant panel.

Making your business reach full potential

# UNLOCKING COMMERCE FOR MERCHANTS IN REAL-TIME

- **Record Sales & Payments:** Merchants can effortlessly record sales and payments, including advances or cash sale entries against customers. Detailed ledgers, net dues, and advance balances can be monitored, with the ability to attach bill or receipt photos to entries for enhanced record-keeping.
- **Reports:** Robust reporting capabilities enable merchants to generate and download reports for tracking sales and payments, facilitating informed decision-making and financial analysis.
- **EMI:** Merchants can delight customers with affordability options through EMI (Equated Monthly Installments), enhancing purchasing power and driving sales.
- **Offers:** Customized offers banners enable merchants to increase footfalls and sales by creating tailored offers for customers, which can be easily shared via messaging apps and social media platforms.
- **Merchant Management:** An integrated and holistic merchant management system simplifies operations, empowering businesses to efficiently manage their merchant network.
- **Dedicated Merchant Application and Portal:** Accessible via web, Android, and iOS platforms, dedicated merchant applications and portals provide comprehensive tools and resources for managing transactions and monitoring business performance.
- **Easy Integration with Banks Multiple Payment Frontend:** Seamless integration with multiple payment frontends offered by banks further enhances the versatility and accessibility of UPI Merchant Acquiring Solutions.
- **Add and Manage Sub-users Through the Application:** Merchants can empower their staff to accept payments by creating individual logins and assigning roles such as cashier or manager through the application, facilitating efficient transaction processing.
- **No Additional Hardware Needed:** Converting an Android smartphone into a Point of Sale (PoS) terminal eliminates the need for additional hardware, reducing operational costs and enhancing accessibility for merchants.

# EXPORTING INDIA'S REAL-TIME TECH TO THE WORLD

**UPI follows the philosophy of Vasudeva Kutumbakam or One World, One Family, bringing in the spirit of inclusiveness and collaboration.**

India's rapid growth in digital payments with the help of its Unified Payments Interface (UPI) has set the global standards of digital adoption. Having implemented and executed it for major institutions in the most challenging of markets, India, FSS RTP provides its services with a practitioner's lens, as opposed to consultants who come in with a theorist's lens. FSS RTP brings in the practicality of real-world experience with a cutting-edge solution to meet the needs of modern digital economy.

## FSS RTP'S OPERATING PILLARS



### Payment Security

- 2-Factor Authentication
- Transaction Risk Scoring

### Overlay Services

- Corporate / Bulk Payments
- Cross-Border Transfers
- Tax and Grants Payments

### Flexible Settlement

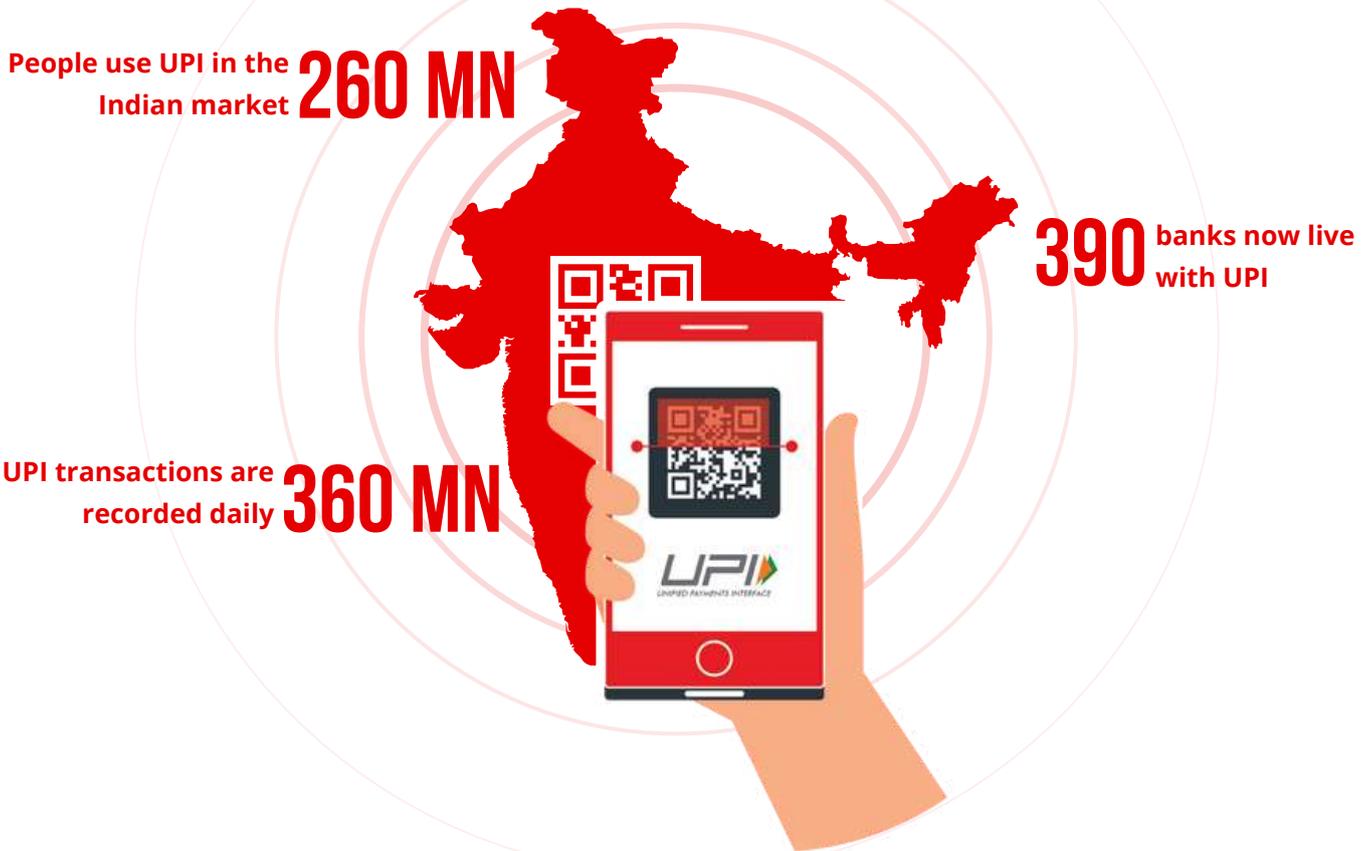
- Scalable & Automated
- One-to-One Clearing
- Multiple Settlement Cycles

### Interoperable System

- REST APIs & SDK Integration
- ISO 20022 & ISO 8583
- Multiple Payment Models

# BRINGING INCLUSION AND CONVENIENCE

The Indian real-time interface, UPI has brought great convenience to its users. It has eliminated the need to go to a bank branch, reduced usage of debit card and even reduced the need to carry physical cash in metropolitan cities. Customers can now carry out transactions from the comfort of their homes, saving time and money. The platform has also reduced the cost of transactions, making digital payments more accessible to the masses.



At FSS, we understand the complexities of operating a new-age payments business and as strategic technology partners, it is our mandate to equip these businesses with future-proof, user-friendly, transparent technology solutions that are not only industry-ready but also **industry-leading**.

# CHANGING THE WAY WORLD PAYS

---

## Person to Person

- Instant transfers
- Split payments with Friends
- Foreign Inward Remittance (FIR)
- Cash Withdrawal at ATM

## Person to Merchant

- Bill payments
- E-commerce payments
- In-app payments
- Over the counter payment
- QR payments
- Collect request from merchant
- One-time/Recurring Standing Instructions
- Credit Card payments
- International Merchant payments

## Merchant to Person

- Micro-lending
- Disbursement / Bulk payout
- Refund / Reversals
- Cashbacks

## Merchant to Merchant

- Just In-time Supplier payments
- Invoice linked payment

## Government to Citizen/ Citizen to Government

- Disaster Relief payments
- Welfare payments
- Tax payments
- Fine/penalty payments
- Subsidy disbursement
- Application payments
- Toll payments
- Payments to railways/metro/government transports
- GST payments
- Merchant incentives
- IPO allotment



# RIGHT ON TIME FOR REAL TIME



## **FSS RTP deployed for IDFC First Bank, one of the first digital-only banks in India and to deploy Aadhaar-linked cashless merchant solution**

- FSS enabled real-time payment for the bank within 12 months
- Transaction volume at inception was 1 million per day and increased up to 4.5 million per day within 5 years
- IDFC has onboarded more than 4.7 million customers and 500 merchants for real-time payments so far

## **FSS Real Time Payments deployed for Shivalik Small Finance Bank, offering retail banking products and first to transition to an urban cooperative bank**

- FSS enabled real-time payment for the bank within 9 months
- Shivalik Bank processes 1 million transactions every month, and has onboarded 23,000+ customers till date

## **Bringing financial inclusion to every Indian with India Post Payments Bank**

- Powered by UPI and Aadhaar Enabled Payment System for biometric-based transactions
- 195,000 Grameen Dak Sevaks enabled, with 45 million new account creations
- More than 50% women account holders
- FSS is processing more than 10 million real-time transactions daily for the bank



## ABOUT US

Financial Software and Systems (P) Ltd. or FSS is a leader in payments technology and transaction processing. FSS offers an integrated portfolio of software products and hosted payment services built over three decades of experience. Headquartered in India, FSS services leading global banks, financial institutions, processors, central regulators, and governments across North America, UK/Europe, Middle East, Africa, and APAC.

For more information visit [www.fsstech.com](http://www.fsstech.com)

© 2024 Financial Software and Systems Private Limited, Chennai, India. All Rights Reserved.

FSS believes the information in this document is accurate as of its publication date; such information is subject to change without notice. This document shall not be disclosed, used, reproduced, or duplicated in any form whatsoever, either in whole or in part, for any purpose other than to internally disseminate this information within your organisation for the purposes of considering the proposal of FSS' product and service offerings.

# FSS

## POWERING PAYMENTS