LTIMindtree

Powering the Future of
Real-Time Payments

Overview

Besides offering a cheaper, faster, and more efficient payment system, Real-Time Payment (RTP) enhances overall market competence, improves financial inclusion, and thus propels economic growth. By 2025-26, RTP is expected to account for a quarter of all global electronic payments at 500 billion transactions/year. The wider adoption of ISO 20022 and the growth of RTPs, newer digital channels, and value-added services is forcing banks and financial institutions to simplify their payment landscapes to integrate with newer payment channels and use open APIs for new product launches. However, using multiple disparate payment systems creates more problems than it solves.

Business Challenges

To meet the changing customer preferences, most American banks and financial institutions have adopted multiple or all RTP systems, including Zelle, TCH, FedNow, and ACH. However, they also had to use separate gateways for each of them with limited interoperability. The transaction logs are also distributed across multiple gateways, which leads to effort duplication and increases the overhead for system reconciliation and maintenance. This makes it difficult for banks to draw insights from the fragmented data and negatively affects customer experience.

Our Solution

LTIMindtree's SMART-PAY is an RTP-in-a-box solution that acts as a unified payment gateway for all instant payment systems in the US, including Zelle, TCH, and FedNow. Rationalizing multiple customer/product payment gateways reduces the overall management and maintenance cost, offers a centralized view of all transactions, and provides in-depth insights across different systems. It also helps banks offer a rule-based decision engine that allows customers to select the appropriate network and make transactions.
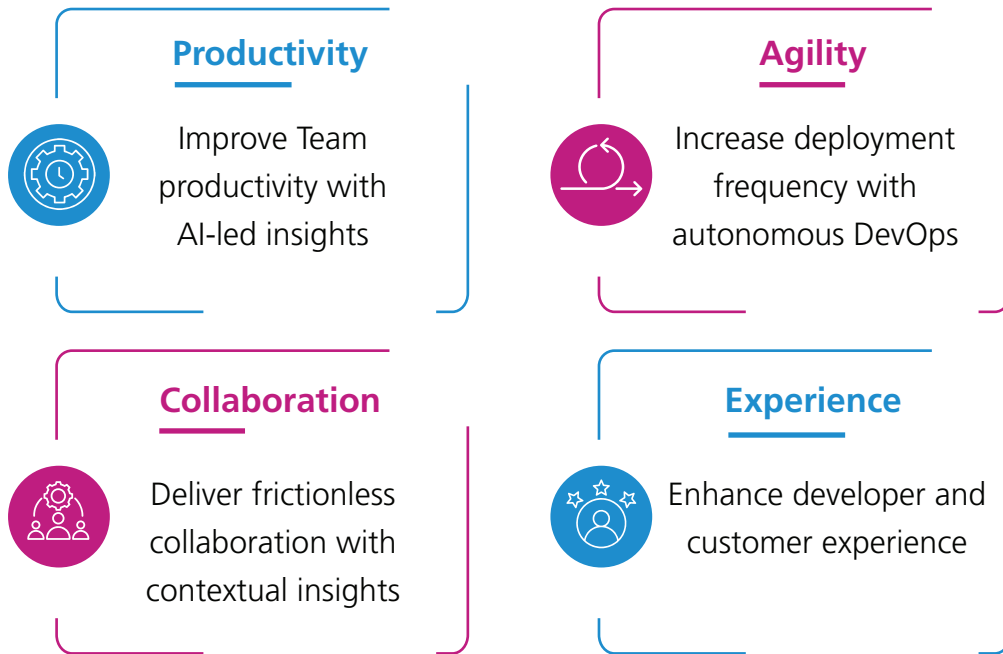
## Structure of **existing RTP schemes in the US**
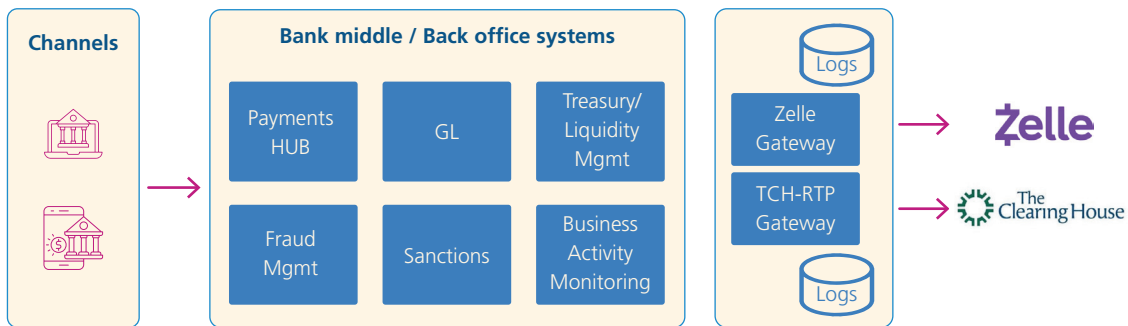
Structure of RTP schemes after introducing Smart-Pay
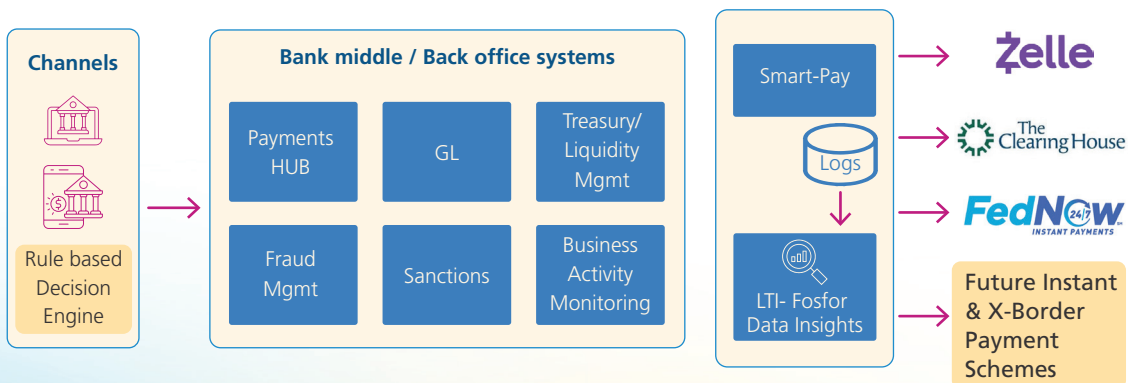
Built On LTIMindtree Canvas – Smart-Pay leverages the Canvas platform, an AI-driven software engineering platform, to offer resiliency against unseen scenarios in the development stage. By harnessing data generated from across the lifecycle – such as user stories, code, test cases, and defects, Canvas provides insights for software development and predicts outcomes for effective decision-making. It can integrate with Continuous Integration (CI)/Continuous Delivery (CD) pipelines to enable the DevOps working model.

Productivity
Improve Team productivity with AI-led insights

Agility
Increase deployment frequency with autonomous DevOps

Collaboration
Deliver frictionless collaboration with contextual insights

Experience
Enhance developer and customer experience

Fosfor data insights solution – Fosfor is an integrated product suite that helps businesses monetize data at speed and scale, enabling data commerce for the entire organization. Fosfor data insights add copious value for RTPs such as TCH and FedNow that use the data-rich ISO 20022 specifications for their interface:
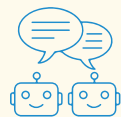
The conversational AI-driven platform helps mine data and unlock insights that will help banks cross-sell, up-sell, retain customers,and more.

The comprehensive data-ops platform of Fosfor creates a 360-degree view of customers, and its applied advanced analytics models can deliver very high throughput for real-time transactions.

| | Why did payment volume decrease for invoice payments | 🔍 |

EXOPLORE (Everything you want to know)	DIAGNOSE (Why)	FORECAST (What will be in future)	Simulate (What-if)
Comparison of invoice payment volume with previous months	Why there is a decrease in invoice payment volume	Forecast of payments for next 12 months	What if we provide short-term working capital for selected SME clients

NUDGES (Everything you want don't know)	Auto insights pointing that there is a significant dip in transaction volume for few SME clients		
Natural language search	Business Summaries using NLG	Connected stories via recommendations	Explainable insights using LXAI

World's First Virtual Analyst – Lumin
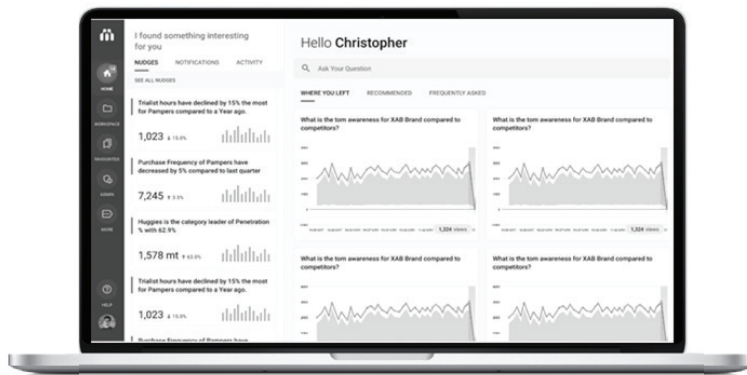
Predictive and Prescriptive Payment Analytics

Autonomous Insights for Payment Processors

Intelligent Search Based Analytics

Real-time payments testing – We have partnered with Iliad to offer an integrated real-time automated payment testing solution – **T3** – used by major financial institutions and networks globally. It can perform functional, regression, performance, and high-availability testing across systems like Zelle, TCH-RTP, and FedNow. T3 offers pre-built test cases for all three schemes.

Automated test validation for entire transaction life-cycle for any payment rail

E2E coverage from initiation, processing, compliance, investigation to reports

Simulates any end-point in a single solution – including initiation channels, payment hub, core engine, gateway connectors, payment scheme

Containerization technologies to simplify deployment and enable unlimited scaling

SUT 1   SUT 2   ....   SUT n

Global 24x7

Automation

CI/CD/DevOps

Front-end GUI for certifications

Enterprise-grade payment testing platform

ISO20022	TCH RTP	FedNow
Open-API	SEPA	SWIFT
...	, ...	...

Test and Config Data

Results and Reports

Test multiple systems simultaneously

- HTTP/S/2
- TCP/IP
- MQ

Additional Services Added Dynamically

Why LTIMindtree

We bring over two decades of experience driving payments and card transformation globally

We have a diverse global clientele, including Fortune 100 banks, regional banks, and large payment processors in North America, the UK, Europe, the Nordics, Africa, and Asia Pacific

Our expertise spans retail and corporate payments, including issuing, acquiring, ATM/switch, digital payments, security and risk management, operations, and infrastructure

Kindly contact **info@ltimindtree.com** for additional details and to view a live demonstration

LTIMindtree

About LTIMindtree

LTIMindtree is a global technology consulting and digital solutions company that enables enterprises across industries to reimagine business models, accelerate innovation, and maximize growth by harnessing digital technologies. As a digital transformation partner to more than 700 clients, LTIMindtree brings extensive domain and technology expertise to help drive superior competitive differentiation, customer experiences, and business outcomes in a converging world. Powered by 82,000+ talented and entrepreneurial professionals across more than 30 countries, LTIMindtree — a Larsen & Toubro Group company — combines the industry-acclaimed strengths of erstwhile Larsen and Toubro Infotech and Mindtree in solving the most complex business challenges and delivering transformation at scale. For more information, please visithttps://www.ltimindtree.com/