

## **APEX RECONCILIATION**

Agility through automation and advanced analytics  
with Apex Generic Reconciliation





## APEX RECONCILIATION

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### Apex Reconciliation

As adoption of digital payment methods accelerates, the payments landscape is constantly expanding to accommodate new channels and payment options. The imperative to operate 24x7, handle a proliferation of payment types, keep pace with exponentially growing volumes and accommodate instant settlement is putting enormous pressure on financial institutions. Increased complexity and tight timescales quickly reveal the shortcomings in traditional reconciliation systems which are heavily dependent on manual intervention and struggle to cope with a proliferation of diverse data sources.

Apex Generic Reconciliation is a next generation, proven and agile reconciliation solution which deploys innovative technologies including DLT, AI and advanced data analytics to optimize reconciliation performance across the enterprise. Whether it's balancing ATM transactions, using centralized clearing systems, identifying failed transactions, exception handling or any other aspect of finalizing payments and accounting, it offers a solution to streamline operations – enhancing efficiency, reducing organizational risk, ensuring regulatory compliance and improving the quality and accuracy of back-office processes.

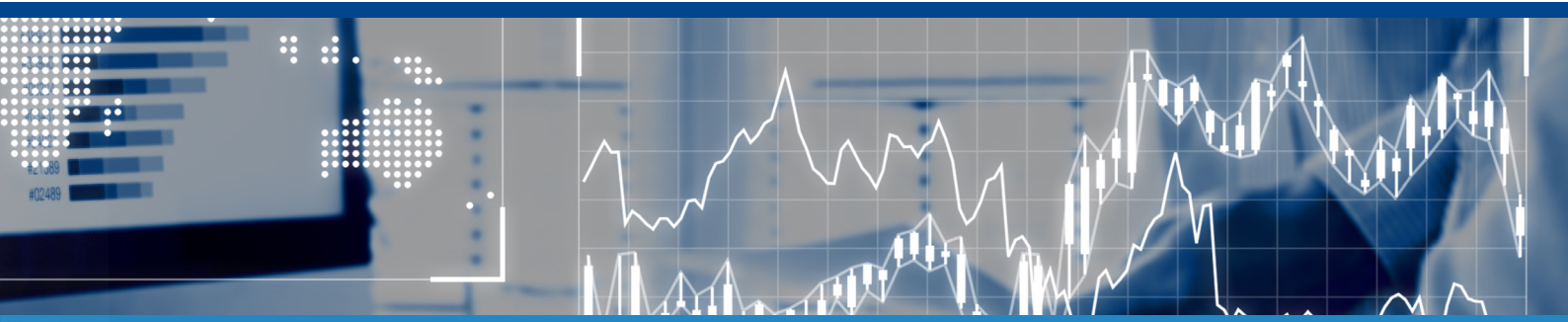
The solution leverages powerful automation capabilities and workflow management, as well as offering sophisticated insights that allow human analysts to spend less time on manual transaction finalization and more time focusing on added-value ongoing performance improvement, commercial benefits and customer value. Apex Generic Reconciliation fits easily into the existing payments infrastructure, facilitating the implementation of agile operational strategies.

### Harnessing Innovative Technologies

High volume, repeatable and data-intense processes lend themselves to optimization using blockchain, AI and advanced analytics. These future-facing technologies take the pain out of reconciliation by finalizing transactions faster. They increase accuracy and agility, refine prioritization, reduce complexity and extend automation as part of a stable, reliable foundation for payments growth.

eMcREY has a strong pedigree in developing and implementing AI-based solutions and supporting clients to maximise the potential of data and analytics. Our team of data scientists specializes in developing frameworks for AI and machine learning that can be trained and refined on bank-specific data sets using techniques including Natural Language Processing and Computer Vision, predictive analytics and deep learning neural networks.

DLT presents another opportunity to remove friction from reconciliation while upgrading systems for real-time processing. Instant settlement and reconciliation can be performed simultaneously and transparently, with near real-time analytics. Automated netting of multilateral settlements reduces discrepancies, fees, manual intervention and the volume of disputes.



## Key Solution Benefits

- Modern and flexible solution from an established end-to-end payments solutions provider, combining exceptional regional knowledge with global technology expertise and large-scale implementation experience across rapidly expanding digital ecosystems
- Proven management of a comprehensive range of intra-bank and inter-bank workflows, covering end-to-end processing for POS, ATM, domestic and global card schemes, Instant Payments, RTGS transfers, cross-border transactions, General Ledger and internal instant settlement, Nostro and more
- Full SWIFT compliance and management capabilities, including Nostro Treasury and Non-Financial/ Inquiries n99. Intelligent system detects missing and unsorted statements
- Plug-in solution enables rapid adaptation of the existing back-office environment, allowing banks and processors to respond rapidly to new digital payments channels and market opportunities
- Integration layer leverages knowledge of local systems including mada, SARIE and SADAD bill payments, as well as regional payment systems
- Automatic onboarding of transaction data keeps business moving in a fast-paced payments world, while off-the-shelf and tailor-made models ensure disparate data is rapidly assembled and readied for processing in a standard format
- Automation of matching rules improves matching rates, identifies patterns and reduces the effort, cost and risk arising from manual intervention
- Clients gain competitive advantage from AI and advanced analytics capabilities, tailored to their business requirements, supported by eMcREY's locally based, highly qualified team of data scientists
- Blockchain use cases apply eMcREY's DLT expertise to eliminate reconciliation headaches by performing simultaneous, immutable settlement and reconciliation
- Flexible business model allows Apex Reconciliation to be installed on-premises or made available as a SaaS solution, from eMcREY's secure PCI-DSS certified Tier III+ data center.

## Why choose eMcREY for Reconciliation?

The settlement and reconciliation process can be challenging, increasing costs and impacting productivity when handling what are already low-margin transactions. eMcREY has provided major banks in the Middle East region end-to-end settlement, reconciliation and dispute management of transactions from issuer and acquirer activity across POS and merchant accounts, ATMs and electronic journals, networks and core banking hosts. The company also has extensive experience in automating the processing of domestic and cross border payments through domestic and international schemes (SWIFT / SARIE / GCC RTGS / IPS / national payment systems). Apex Generic Reconciliation is a proven solution supporting consolidation and streamlining of reconciliation processing for billions of transaction records daily.

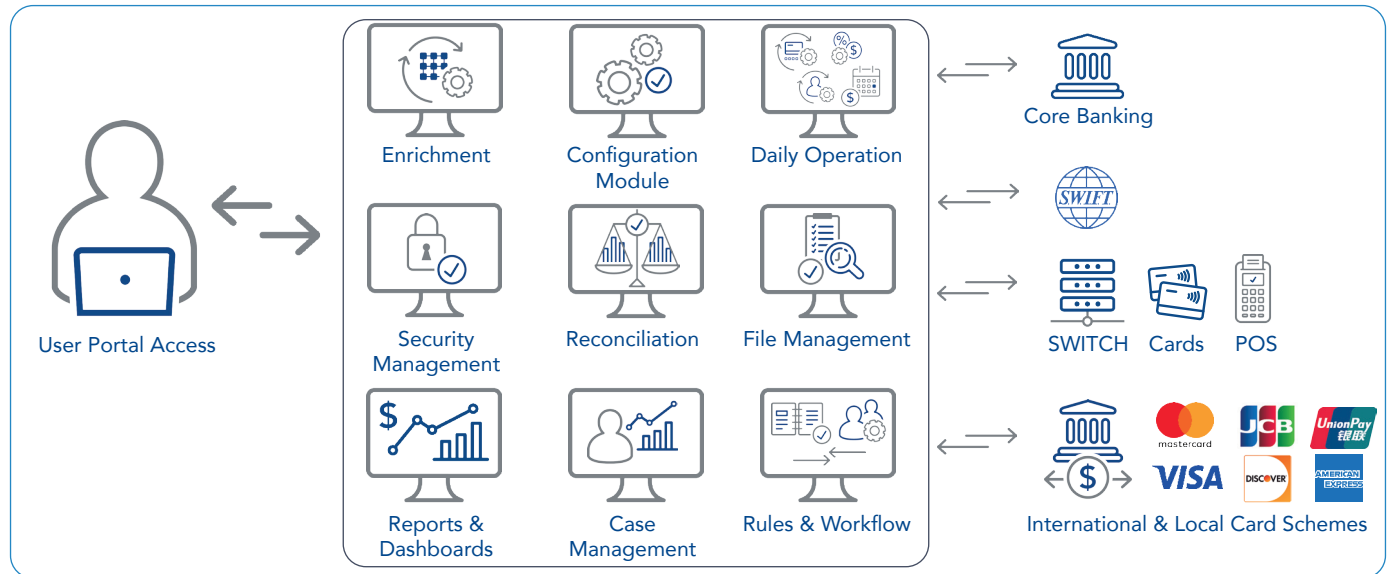
eMcREY has deep expertise across the entire payments lifecycle, combining extensive implementation experience, exceptional regional knowledge and hands-on operational experience. Like all our payments solutions, Apex Generic Reconciliation has evolved for the always-on, increasingly complex digital environment. It takes advantage of innovative technologies and deploys them to reduce friction, enhance productivity and enable progress.

eMcREY's dedicated consultants, subject matter experts, engineers and data scientists bring detailed business and technical understanding, along with an unparalleled focus on customer success and an enviable track record in delivering enterprise solutions that meet or exceed expectations.

## APEX RECONCILIATION

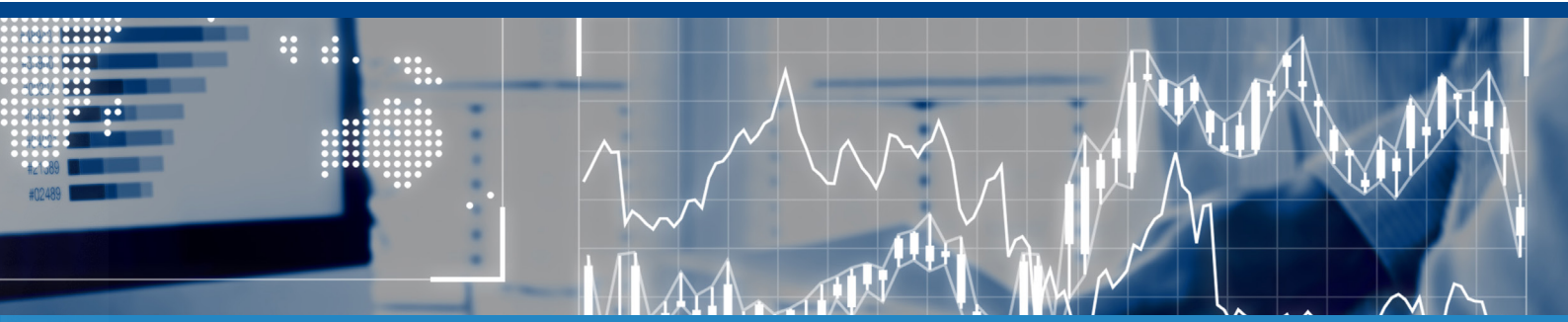
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### Functional Overview



### Technical Highlights

- ReconAI module within the solution leverages advanced AI models and machine learning technologies to streamline and enhance the process of reconciling financial transactions across the enterprise. This advanced module brings enhanced effectiveness and automation for complex multi-leg reconciliation and matching, providing an intelligent, automated approach to financial transaction reconciliation processing
- ReconDLT module receives notifications as each stage of the transaction process is completed and records this in an immutable form within a single system, which verifies consistency using programmable smart contracts. This quickly identifies discrepancies, with no further reconciliation required
- Includes all integration layers to fully reconcile and automate SADAD, RTGS/SARIE and IPS transactions, as well as mada, Buna, KNET, NAPS and EBC
- Sophisticated rules-based Workflow Engine takes the strain, increasing accuracy of one-to-one, one-to-many and many-to-many matching so human analysts can focus on genuine exceptions
- Real-time reconciliation capabilities mean the solution is especially suitable for digital payments and high frequency trading environments, allowing for immediate detection and resolution of discrepancies
- Facilitates automated reconciliation of diverse message formats by employing a flexible array of configurations and workflows, trained to optimize organizational outcomes
- Extensive configuration parameters for template definition, matching rules, account reference, reconciliation workflow and outcomes evaluation
- Self-Onboarding module allows users to define and automate reconciliation processes without requiring development skillsets
- Intuitive Working Area user interface, integrating financial management, reconciliation and case management features in a single view, while prioritizing security and compliance through dual approval and red flag detection mechanisms
- Incorporates full exception processing, case management and escalation capabilities
- Comprehensive 360° reporting and insights and dashboards providing real-time analytics



## eMcREY: Your Trusted Payments Partner

eMcREY has great expertise in the design and implementation of world-class payments infrastructure. Our solutions extend across the entire payments landscape and help our clients create a world-leading payments environment. Our Apex suite of 35+ patented, proven payments solutions is created with the customer in mind and informed by our deep experience of working with leading financial services companies. Since 2005, eMcREY has helped clients in the financial services, government, energy and transit sectors use technology to enable seamless, fast and secure interactions. We combine our product portfolio with world-class capabilities from digital payments partners.

eMcREY solutions encompass Card management, Mobile payments and tokenization, Payments vehicles issuance, Fraud, AML & risk management, Settlement, reconciliation & dispute management, Non-card payments, Merchant acquiring, EFT and switching, Transit solutions, Open banking and BaaS, Automation and e-government, Middleware & Integration Services, DLT, Virtual Assets and CBDC and Capital Markets (Treasury, Loan Management).

With its headquarters in Saudi Arabia, offices in Qatar, Egypt, Dubai, Cyprus, Lebanon and Canada and a team of 500+ specialists implementing complex solutions for a wide range of clients, eMcREY is a Mastercard Platinum Digital Vendor, Visa Certified Vendor, EMVCo Associate, IBM Enterprise Partner and Oracle Platinum Partner.

The demands of the 24x7 payments environment call for a new approach to reconciliation, which offers extensive automation of transaction matching supported by sophisticated AI, analytics and insights capabilities. Apex Generic Reconciliation harnesses new technologies, including DLT, to increase efficiency, accuracy and scalability in a single, world-class solution designed to consolidate reconciliation processing across all internal and external payment types and channels.

## Global Reach. Local Knowledge.

Serving customers in more than 10 countries world-wide.

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