



MACS



Multi-Assets Custody System

by

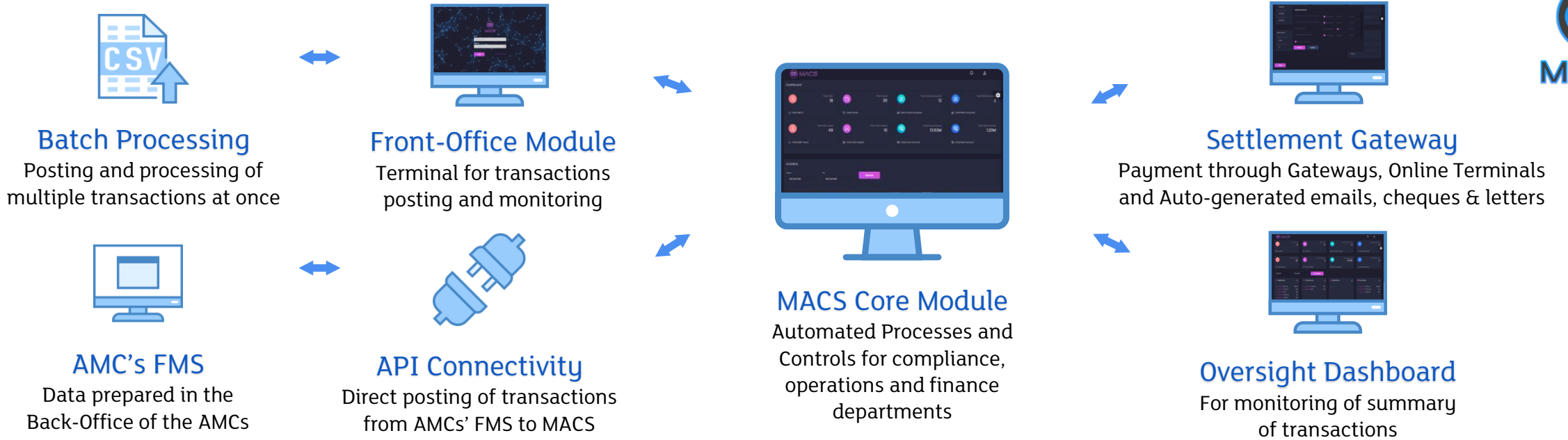


**DIGITAL
CUSTODIAN
COMPANY**

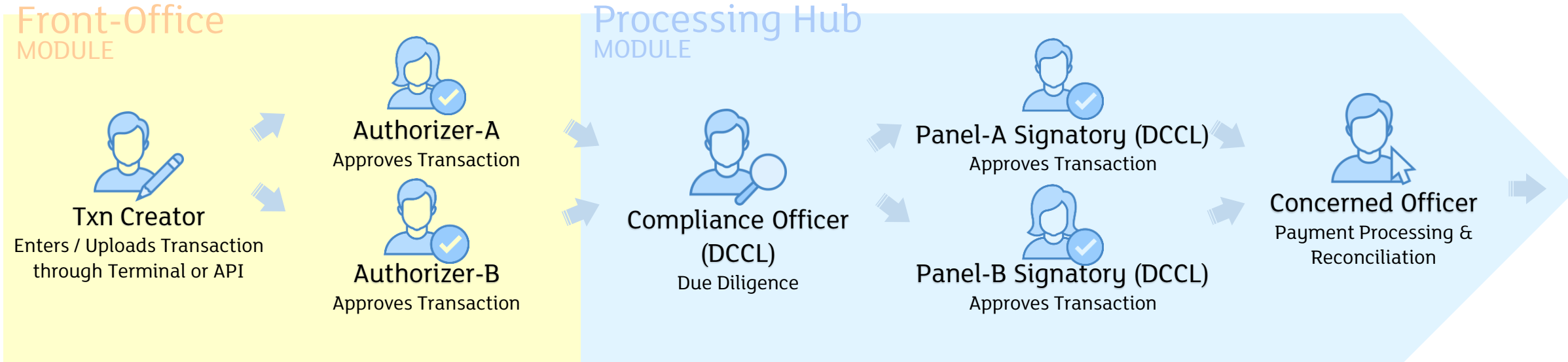
Formerly
MCB Financial Services Limited

Pakistan's first Blockchain FinTech providing digitized asset servicing platform for Trustee/ Custodian/Independent Asset-Holding, Asset (Shares) Registry & Authorized Intermediary Functions

Integrated System



Transaction Process



Top Benefits of MACS



Digital Processing & Fast Settlement

Provides considerable time savings in end-to-end transactions processing with ever simpler, faster and digitized processes.

Provides more information in a shorter period.

Automated Compliance with Reduced Risks

Boosts compliance functions of AMCs by reducing risks of human errors.

Audit trails of each activity is recorded and reconciliations with banks is simplified.

Unit Holders' Ledgers & Fund Portfolios

Thorough Unit Holders' ledgers for compliance.

Excessive redemption of units is notified instantly.

Investment portfolios of each fund are managed.

Less Resources & Reduced Costs

Reduces expenses (on resources and HR) because of integrated digitized processes and distributed data.

Requires no separate links and high bandwidths for MACS connectivity.

Enhanced Security and Authenticity

Security of ledgers is enhanced due to encryption, data access controls, and locking of data with timestamp.

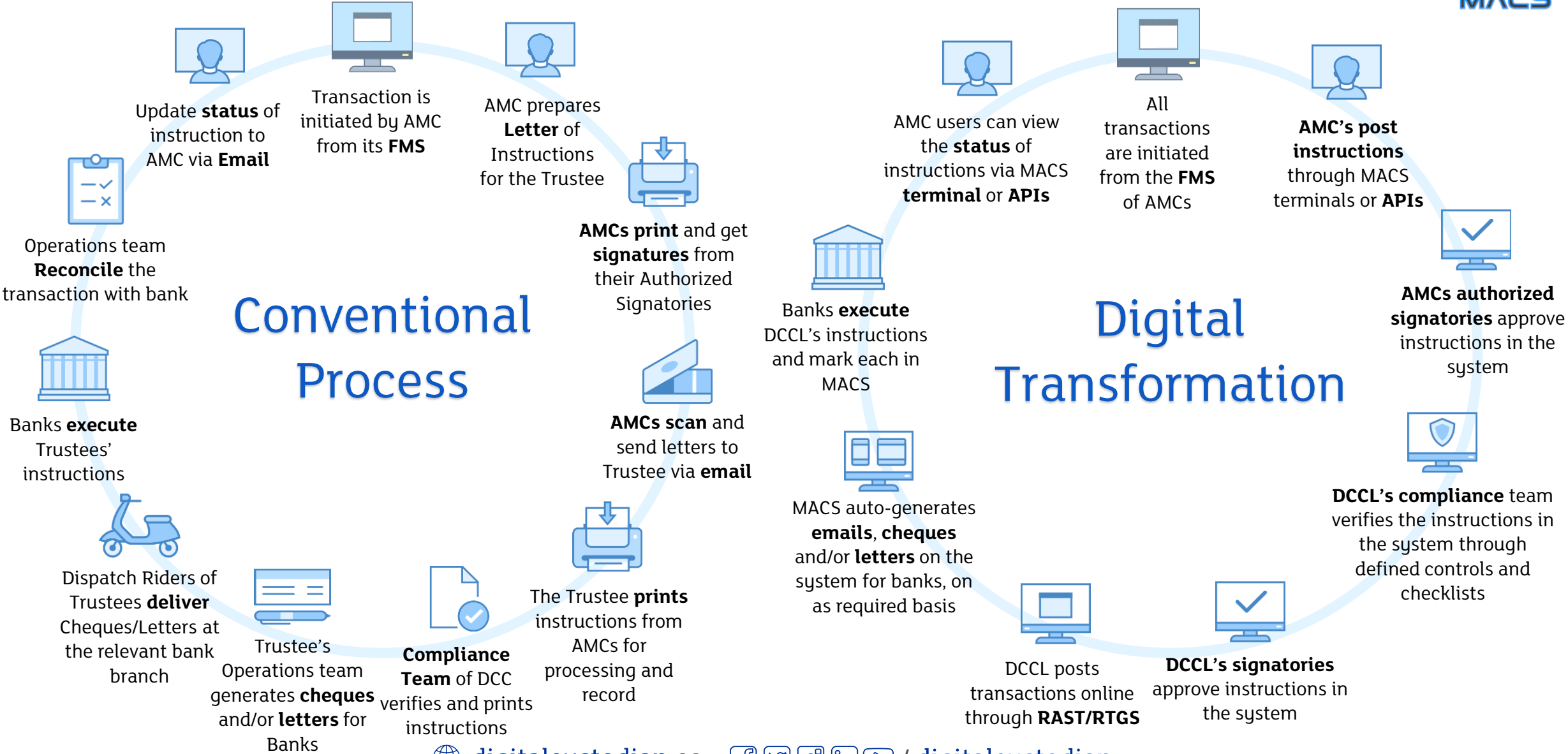
Digital Signatures for authenticity of user's activity, two-factor authentication and OTPs

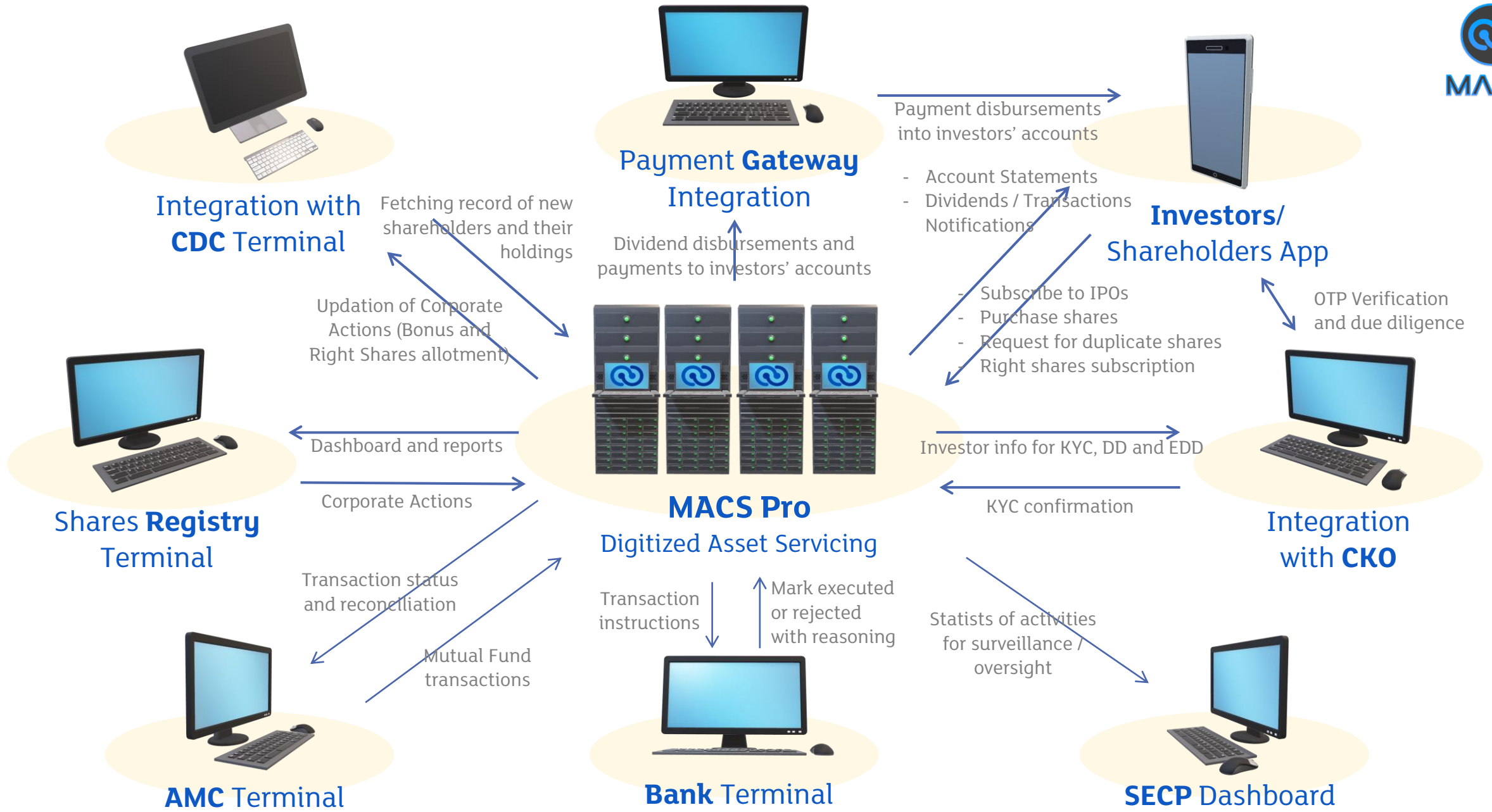
Transparency and Surveillance

Identical copy of data exists on all terminals; therefore, data is not in control of any single person or entity.

Statistics of daily activity made visible to SECP and MUFAP at their dashboards.

Transformation of Functions





Key Contacts

Scan QR codes with mobile app to save contacts



Khawaja Anwar Hussain Syed

Chief Executive Officer

+92-321-2668668

khawaja.anwar@digitalcustodian.co



Faisal Amin

Deputy CEO

+92-321-2641445

faisal.amin@digitalcustodian.co



Siddique-ur-Rahman Khurram

Head of Middle Office Functions

+92-300-8555126

siddique.khurram@digitalcustodian.co



Naeem-ur-Rahman

Head of Front Office Functions

+92-300-0201053

naeem.rahman@digitalcustodian.co





Total AMC Users
4

Total Funds
1

Total Funds Accounts
1

Total SMA Accounts
0

Total Unit Holders
11

Total Fund Amount
20.50k

Total SMA Amount
0

05/05/2021 05/05/2021 Search

Registered 7

- > 1620197366227 Redemption of Units 1100
- > 1620197366226 Redemption of Units 1100
- > 1620196308644 Sale of Unit 5390
- > 1620196308643 Sale of Unit 5145

Compliance 3

- > 1620197366227 Redemption of Units 1100
- > 1620196308644 Sale of Unit 5390
- > 1620196308643 Sale of Unit 5145

Operations 3

- > 1620197366226 Redemption of Units 1100
- > 1620196070403 Sale of Unit 5488
- > 1620196070402 Sale of Unit 5194

Complete 1

- > 1620196070401 Sale of Unit 4900

MACS-Trustee v1.15.1 (PTCL)

Mode of Payment: Online

Instrument Type: PO

APPROVAL CHECK LIST

- 1. Check the accuracy of the transaction Compliant N/A
- 1. Verify the accuracy of the transaction Compliant N/A
- 1. Checked dates Compliant N/A
- 1. Verified instrument details Compliant N/A

Action: Submit Cancel

Status: CREATED

Created By: dgcustodian@gmail.com

Created At: 21-Apr-2021

Last update: 28-Apr-2021, 2:55 pm

MACS-Trustee v1.15.1 (PTCL)

Instrument Type: Units Redeemed

Instrument No./Reference No: 100.0000

Instrument Date / Deposit Date: 28/04/2021

Units Redeemed: 100.0000

Current Holding: 1000.0000

Redemption Date: 28/04/2021

Remaining Holding: 900.0000

Changes: 0.00

Net Amount: 1096.00

1. Status: CREATED

Created By: abbas.haider@yopmail.com

Created At: 28-Apr-2021

2. Status: ACCEPTED

AUTHORIZER-B

Last update: 28-Apr-2021, 2:29 pm

3. Status: ACCEPTED

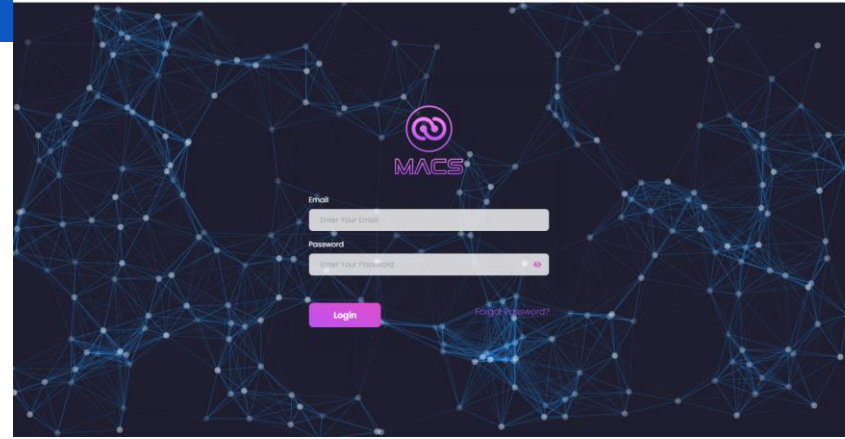
AUTHORIZER-A

Last update: 28-Apr-2021, 3:05 pm

4. Status: ACCEPTED

COMPLIANCE_OFFICER

Last update: 28-Apr-2021, 11:03 am



MACS-Trustee v1.14 (PTCL)

Dashboard: Edit Management Transaction Concerned Officer Reviewer NAV Portfolio Reconciliation Template Reports

Total AMC 14

Total Funds 29

Total Funds Accounts 29

Total SMA Accounts 2

Total AMC Users 49

Total Unit Holders 25

Total Fund Amount 33.98B

Total SMA Amount 1.70B

01/01/2020 20/05/2021 Search

Registered 90

- > 162042970003 Equity Investment 295.00
- > 162042947624 Bank Profit 600
- > 162042949200 Maturity 900
- > 162042928534 Fund Transfer 50
- > 162042958901 Fund Transfer 50

Compliance 3

- > 162039522034 Money Market Purchase 308.7608
- > 162028544258 Sale of Unit 102800.00
- > 162094389296 CDC Fee 9048.00

Operations 34

- > 162028574028 Sale of Unit 80.00
- > 162028574028 Sale of Unit 2206.16
- > 162028539902 Sale of Unit 800
- > 162028538511 Fund Transfer 50
- > 162028538501 Fund Transfer 50

Complete 53

- > 162042970003 Equity Investment 295.00
- > 162042947624 Bank Profit 600
- > 162042949200 Maturity 900
- > 162042928534 Fund Transfer 50
- > 162042958901 Fund Transfer 50

MACS-Trustee v1.14 (PTCL)

Dashboard: Edit Management Transaction Concerned Officer Reviewer NAV Portfolio Reconciliation Template Reports

Fund Wise Units Management Report

Fund Name: DISF-MCISFL Trustee Smart Fund

Unit Holder Folio: *

Search

Report

All items are selected.

Units Management Report

Report Date: 2021-05-20 Fund Name: DISF

IBAN	Bank Account Title	Amc Code	CNIC	Bank Name	Branch Name	Address	City	Created At	Folio No	Father / Spouse Name	Zakat Status	Tax Exemption	TType	Name	Status
380298147	Abdul Malik	DL	78945623121	JSL	JSL-025		Karachi	Tue May 04 2021 09:54:09	162042970003		false	false	Individual	Abdul Malik	active



Blockchain

Cryptography

Encrypting data to unrecognizable format at one end.
Decrypting back to original format for privileged user only



Smart Contracts

Data can be **managed** only through programmable Smart Contracts

Transparency

All network participants have a **copy of the ledger** for complete transparency



Secure

All records are individually **encrypted** and accessible to owners only



Immutable

All validated records are **irreversible** and cannot be changed

Characteristics



Anonymous

The **identity** of all participants can either be anonymous or pseudonymous



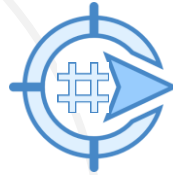
Unanimous

All network participants agree to the validity of each transaction using **consensus algorithm**



Time-stamped

Every transaction is locked and **timestamped** in blocks



Hashing

One-way encryption in which data can not be reverted back to original format. Fixed length hash of each block is saved in next block to link them. Unauthorized change breaks link and invalidates node

Components



Digital Signatures

Authenticity of each participant is validated by **Certification Authority (CA)** using **private/public key infrastructure**

P2P Network

In **Peer-to-Peer Network**, each node directly communicates with other nodes, without a central authority



Transaction Processing

A user initiates a transaction

A block of the transaction is created

The block is broadcasted to all nodes of the network

All nodes validate the block

The validated block is added to the chain

The transaction gets verified and executed



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