



Trustee

For Asset Management
Companies of Mutual Funds



Custodian

For Mutual Fund Investors
(Individual and Corporate)



Trustee

For Debt Market
Securities Industry



MACS
C O R E

MODULES

E-Registry



Demat Shares Registry for
listed/unlisted companies

Intermediary



Authorized Intermediary
Services for corporates

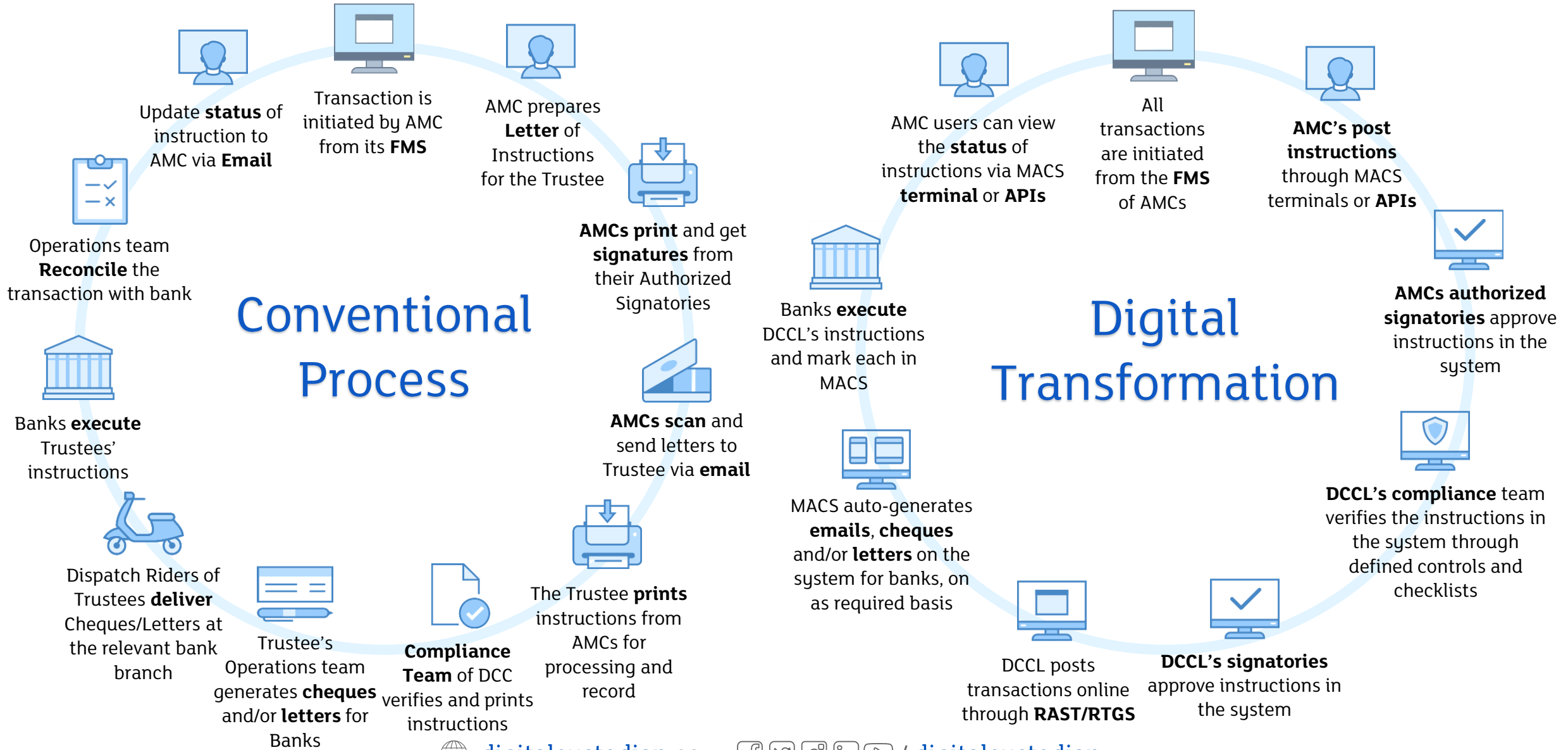
ESOS



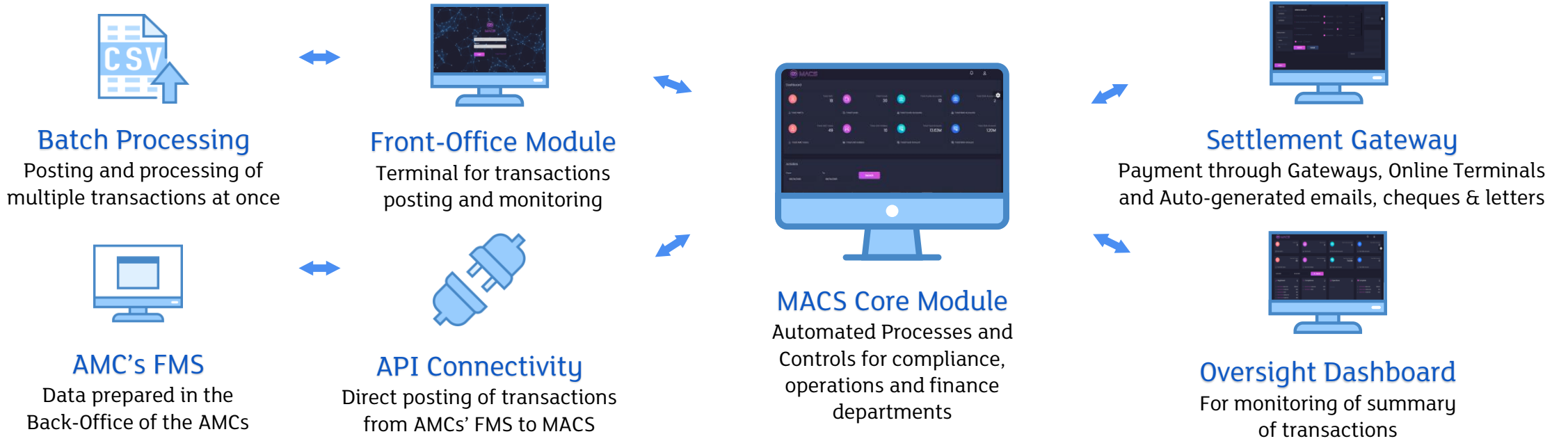
Registry for Employees Stock
Option Scheme of Corporates



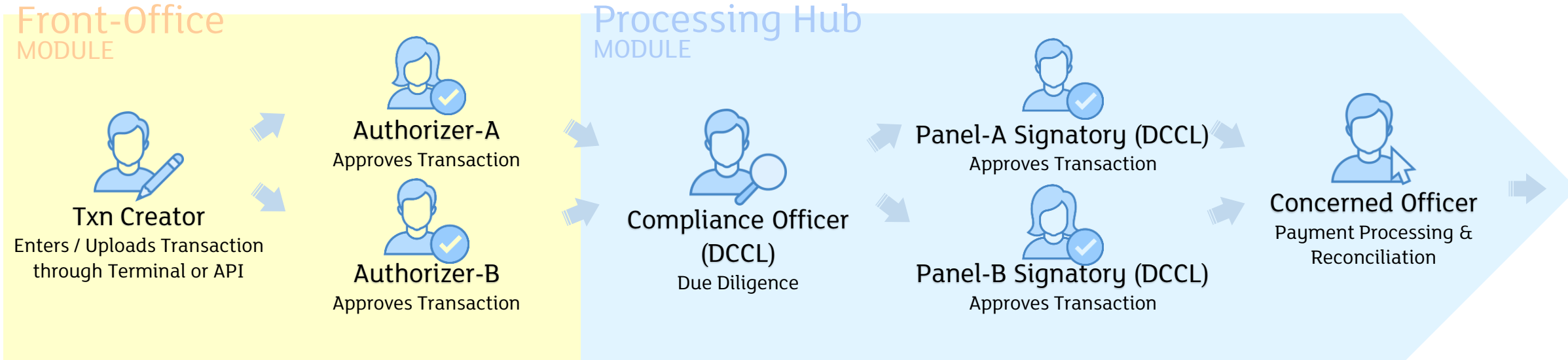
Transformation of Functions



Integrated System



Transaction Process



Distinctive Features

Compared to other systems in the market



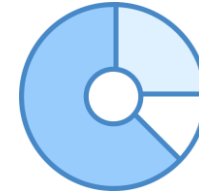
Assistive Role

The system maintains ledgers to assist AMCs in accounting, calculations related to units, transactions, taxes and other deductions



Easy Accessibility

MACS is online. It can run on any PC of AMC team. No dedicated PC or separate link/ bandwidth is required



Added Back-Office Features

The system manages the portfolios of unit-holders and fund investments, to strengthen their compliance and oversight



Modern Interface

The Graphical User Interface (GUI) of the system is aesthetically attractive and friendly to eyes for daily use



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

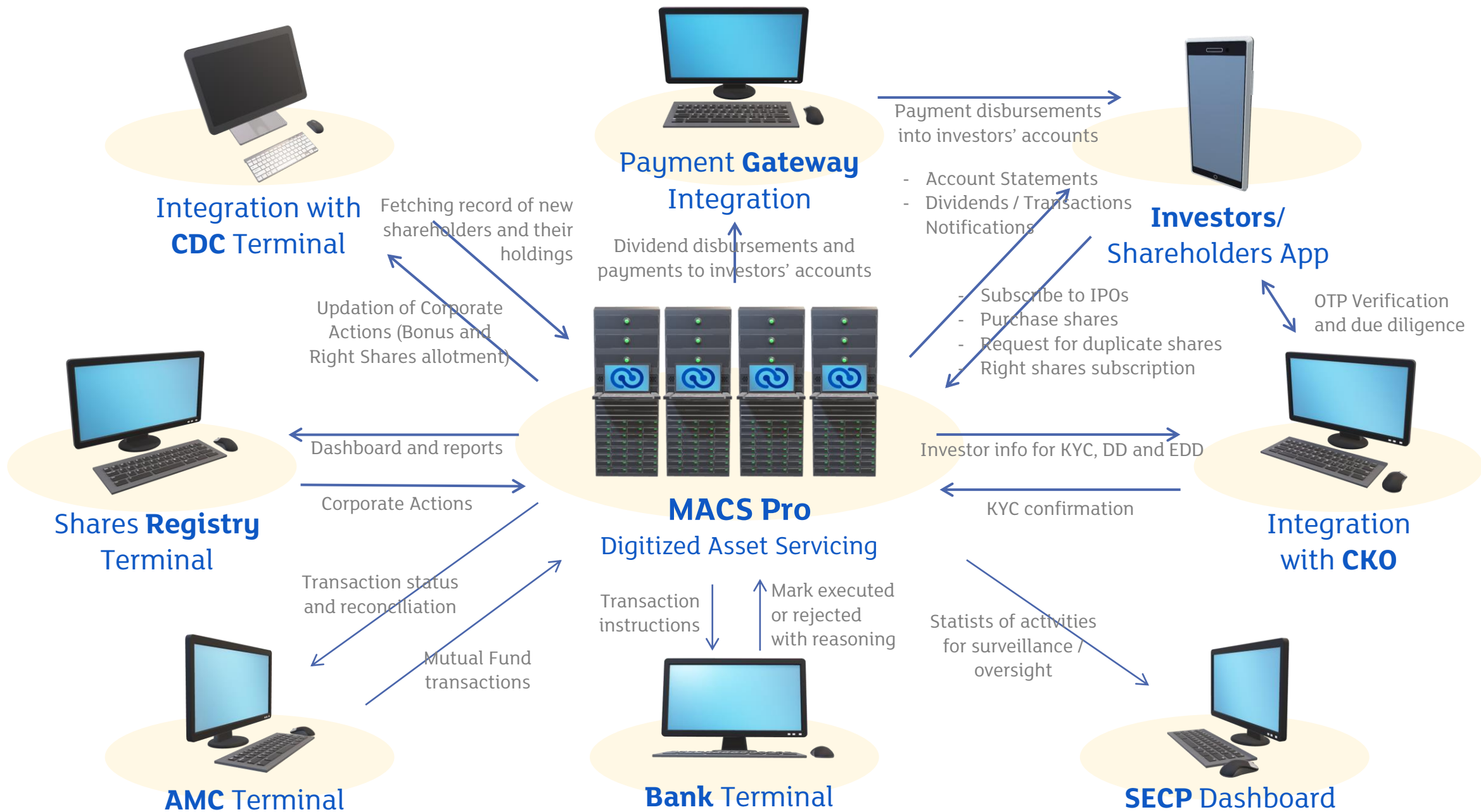


Transparency and Surveillance

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.







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)

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

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

Accept Reject

Status: **CREATED**

Created By: dgcustodian@gmail.com

Created At: 21-Apr-2021

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

Submit Cancel

MACS-Trustee v1.15.1 (PTCL)

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

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

Status: **CREATED**

Created By: abbas.haider@yopmail.com

Created At: 28-Apr-2021

AUTHORIZER-B

Status: **ACCEPTED**

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

AUTHORIZER-A

Status: **ACCEPTED**

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

COMPLIANCE_OFFICER

Status: **ACCEPTED**

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
- > 162042947604 Bank Profit 600
- > 162042949200 Maturity 900
- > 162042928534 Fund Transfer 50
- > 162042958907 Fund Transfer 50

Compliance 3

- > 162039522034 Money Market Purchase 308,760B
- > 162028054025 Sale of Unit 102800.00
- > 162094389296 CDC Fee 9048.00

Operations 34

- > 162028074028 Sale of Unit 80.00
- > 162028074028 Sale of Unit 2206.16
- > 162009039902 Sale of Unit 100
- > 162007086027 Redemption of Units 100

Complete 53

- > 162042970003 Equity Investment 295.00
- > 162042947604 Bank Profit 600
- > 162042949200 Maturity 900
- > 162042928534 Fund Transfer 50
- > 162042958907 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-MCFSL 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	JSLB-025		Karachi	Tue May 04 2021 09:54:09	INTHOLDER_DL-1876		false	false	Individual	Abdul Malik	active

MACS Core Alpha x +

Not secure | 182.191.93.242:3005/admin/post-transaction

Transaction Types

- Unit Management**
 - > Sale of Units
 - > Conversion of Units
 - > Conversion In
 - > Conversion Out
 - > Redemption of Units
- Fund Management**
 - > Fund Transfer
 - > Fund Outflow
 - > Fund Inflow
 - > Fund Dividend Payout
- Investments**
 - > Money Market Investments
 - > Bank Profit
 - > Equity Investment
 - > Dividend on Investment
 - > Cash Margin Deposit
 - > Cash Margin Release
- Fee Payments**
 - > Advisory Fee
 - > Auditors Fee
 - > Bank Charges
 - > Management Fee
 - > Trustee Fee
 - > Custody Fee
 - > Shariah Advisory Fee
 - > CDC Fee
 - > Listing Fee

MACS Core Alpha x +

Not secure | 182.191.93.242:3005/admin/view

Category	Count
Registered (101)	101
Registered Sub-items:	
> Sale of Units (TXN_1636549589113)	5,129,630.00
> Sale of Units (TXN_1636551399035)	5,129.63
> Sale of Units (TXN_1636551798545)	2,051.86
> Sale of Units (TXN_1636551945239)	452.06
> Sale of Units (TXN_1636552157282)	550.21
> Sale of Units (TXN_1636617382046)	2,564.82
Compliance (16)	16
Compliance Sub-items:	
> Equity Investment (TXN_1637055694723)	NaN
> Money Market Investments (TXN_1637127280259)	149,999.94
> Dividend On Investment (TXN_1637149692665)	731.25
> Fund Dividend Payout (TXN_1637239798009)	12,345
> Fund Dividend Payout (TXN_1637239798010)	54,321
> Money Market Investments (TXN_1637330994046)	9,920.00
Operations (1)	1
Operations Sub-items:	
> Fund Transfer (TXN_1636731952989)	12
Complete (80)	80
Complete Sub-items:	
> Sale of Units (TXN_1636549589113)	5,129,630.00
> Sale of Units (TXN_1636617382046)	2,564.82
> Sale of Units (TXN_1636629551149)	51,296.30
> Conversion in (TXN_1636630413637)	30,777.78
> Sale of Units (TXN_1636634349887)	59,881.16
> Sale of Units (TXN_1636694899480)	25,000.00



Instruction

AMC*

Pak Russia Investment Company Limited (PRICL)

Fund Name*

PRICL GOVERNMENT SECURITY FUND (PRICLOS)

Instruction Date

01/12/2021

Execution Date

01/12/2021

Instrument

Mode of Payment*

Cheque

Instrument Type

Cheque

Instrument No./Reference No

123456789

Instrument Date / Deposit Date

01/12/2021

Fund Account

Fund Account*

SAUD PSX (DCCL Trustee PRICL Govt Security fund)

Account Title*

DCCL Trustee PRICL Govt Security fund

Account Number*

PK92 SAUD 1122 4455 4455

Bank

SAUD

Branch

PSX

Counter Account

Unit Holder

UAT Adnan Khan (PRICL-1002)

Account Title

Uat Adnan khan UH

Account Number

PK92 Saud 1111 5555 8888

Bank

SILK BANK LIMITED (SAUD)

Branch

Select...

Transaction Details

Folio Number*

PRICL-1002

Sale Date

22/11/2021

Load

NAV Price*

8.5555

Sale Price

8.9561

% Discount on Load

0

Applicable Unit Load

0.4005

Applicable Price

8.9561

Units Sold*

5,582.7872

5582.7872

Current Holding*

21831.2017

Total Holding*

27413.9889

Amount

Gross Amount*

50,000

50000

Fifty Thousand Only

Sale Load

2235.91

Net Amount

47,764.09

47764.09

Forty-seven Thousand, Seven Hundred Sixty-four and Nine Palsa Only

Payment Type

Receipt



Instruction

AMC*

Pak Russia Investment Company Limited (PRICL) | v

Fund Name*

PRICL GOVERNMENT SECURITY FUND (PRICLSF) v

Instruction Date

01/12/2021

Execution Date

01/12/2021

Instrument

Mode of Payment*

RTGS v

Instrument Type

Cheque v

Fund Account

Fund Account*

SAUD PSX (DCCL Trustee PRICL Govt Security fund) | v

Account Title*

DCCL Trustee PRICL Govt Security fund

Account Number*

PK92 SAUD 1122 4455 4455

Bank

SAUD

Branch

PSX

Transaction Details

Detail*

Sales Tax Collector

SRB - Sindh Revenue Board v

Counter Account

DCC

Digital Custodian Company-DCC-001 | v

Account Title

MCB Financial Services Limited

Account Number

PK28MUCB0000101010116558

Bank

MCB BANK LIMITED (MUCB) | v

Branch

Select... | v

Amount

Gross Amount*

25,863
25863

Twenty-five Thousand, Eight Hundred Sixty-three Only

SST/PST %

13

SST/PST Amount

3362.19

Total Amount

29225.19

WH IT %

8

WH Income Tax Amount

2338.02

WH ST %

20

WH Sale Tax Amount

672.44

Net Amount

26,214.73
26214.73

Key Contacts

Scan QR codes with mobile app to save contacts



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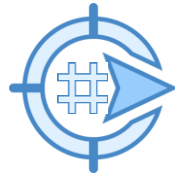
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Blockchain Components



Cryptography

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



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



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 communicates with other nodes directly, without a central authority, to maintain **Distributed Ledgers**.

Characteristics



Powers

Proven platform to run more than 2 trillion dollars **Crypto-Currency** Market across the globe



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



Time-stamped

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



Unanimous

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



Anonymous

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



Smart Contracts

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

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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