23RD ACG - CROSS TRAINING SEMINAR BALL, INDONESIA

TRANSFORMING DEPOSITORY SERVICES WITH API MARKET PLACE

Presenter:

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FLOW OF PRESENTATION

- CDCPL (Brief Profile)
- CDC Initiatives.
- Information Security Measures.
- API Security Measures
- Lesson learnt
- Q & A



CDCPL (BRIEF PROFILE)

Only Depository in Pakistan

- Established under the Companies Ordinance 1984.
- Incorporated as public limited company in 1993.
- Principally acting as depository
- Providing Trustee, Registrar/Transfer Agent as well as Back Office Operations functions.
- Regulated by Securities & Exchange Commission of Pakistan.



CDCPL (BRIEF PROFILE)

- Settling Book Entry Securities Transactions electronically governed under the Central Depositories Act 1997 and the Central Depository Company of Pakistan Limited Regulations for the all three stock exchanges of Pakistan.
- Licensed under the Central Depository Companies (Establishment and Regulations) Rules 1996.
- The shareholders of the Company represents Stock Exchanges of Pakistan, a Foreign Bank and Local Institutions including Banks, DFIs and NBFIs.



CRITICAL ROLE OF CDCPL

- As an important post-trade infrastructure organization in the country, we have a central role in the functioning of the capital markets.
- Through its subsidiaries CDC provide settlement and custodial services for virtually all trades in the Capital markets.
- This translates into billions of worth of transactions processed each business day.



CDCPL BUSINESS SERVICES

- Depository Services
- Investor Account Service
- Trustee and Custodial Services
- Shares Registrar Services
- Investor Portfolio Services
- Roshan Digital Account
- Shared KYC
- Centralized Solution of Insurance Industry
- Centralized Gateway Project



CDCPL API INITIATIVES

- Roshan Digital Account.
- An initiative by the Central Depository Company of Pakistan Limited under the regulatory ambit of State Bank of Pakistan (SBP) and Securities & Exchange Commission of Pakistan (SECP) to facilitate Overseas Pakistanis.
- Investment options are
 - Bank Fixed Deposit Products
 - Stocks / Equities
 - Government Bonds



CDCPL API INITIATIVES CONT..

- Shared KYC.
- CDC, along with the Banking Industry and Capital Market institutions, is making headways on the path of digital account opening for capital market accounts of local resident bank account-holders.
- The pilot implementation of this project is now Live with 5 banks and 8 Brokers.
- Investment options are
 - Stocks / Equities
 - Mutual Funds



CDCPL API INITIATIVES CONT..

- Centralized Gateway Project.
- An initiative by the Central Depository Company of Pakistan Limited under the regulatory ambit of Securities & Exchange Commission of Pakistan (SECP) to facilitate Resident Pakistanis.
- Investment options are
 - Stocks / Equities
 - Mutual Funds
 - Mercantile
 - Insurance



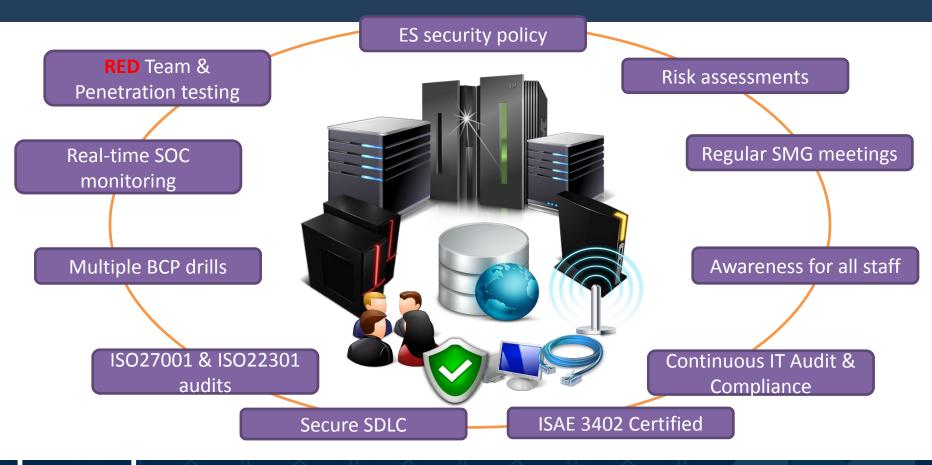
CDC API INTEGRATION WITH ENTITIES





Confidentia

INFORMATION SECURITY





Confidential

INFORMATION SECURITY CONT..

Ransomware Resilience.

- Ransomware resilience exercise is being undertaken to handle ransomware situations and ensure a graceful recovery.
- CDC also undertook this exercise in 2020 when a major utility company got affected by the ransomware.
- Bare metal recovery from ransomware is not a common practice in the industry. CDC is amongst very few organisations to practice it.



INFORMATION SECURITY CONT..

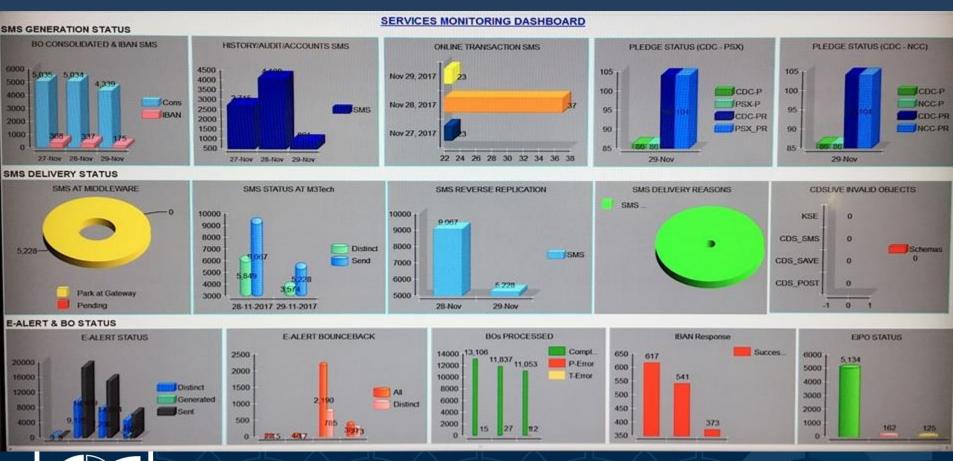
Cyber Risk Assessment.

- CDC engaged Thomas Murray to assess internet attack surface. It has helped to improve overall cybersecurity posture and ranking with global CSDs. TM is a team of 100 analysts, consultants and technologists, based in London with a presence in the US, Canada, Colombia, Hong Kong and Australia.





INFORMATION SECURITY CONT..



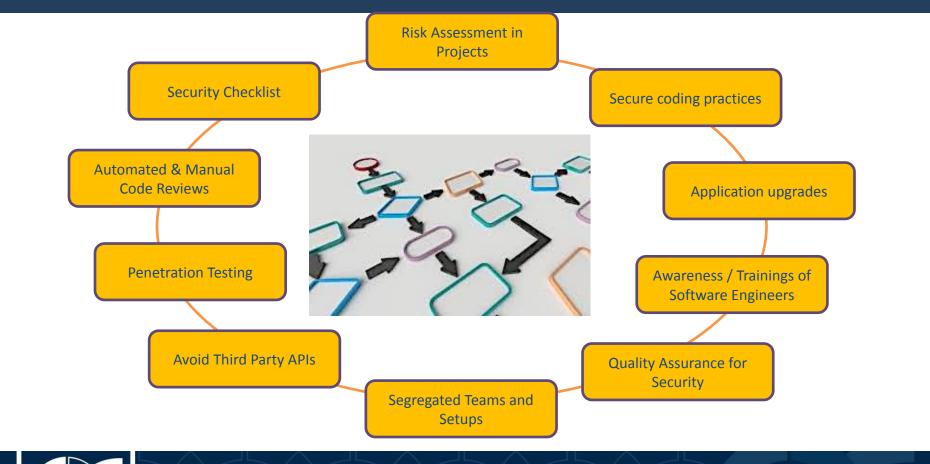


API FUNCTIONAL SECURITY





SECURE SDLC





LESSON LEARNT API INTEGRATION

- Build integrated system based on best practices will ensure smooth and secure transaction execution.
- Regular monitoring via Dashboards.
- Penetration Testing.
- Standardization of integration protocols between entities.
- Role of API Gateway



THANK YOU

Q&A ARE WELCOME

