

## EASI – EASIEST Project Case Study

### Client:-

CDSL is one of the leading Depositories in India which is promoted by Bombay Stock Exchange Limited jointly with leading banks such as State Bank of India, Bank of India, Bank of Baroda, HDFC Bank, Standard Chartered Bank, Union Bank and Centurion Bank.

### Project Objectives:-

- e-enabling Depository services
  - End-to-end web based interaction system - Nuances of the trade cycle encapsulated in the web form providing
    - ↳ Availability
    - ↳ Convenience
    - ↳ Integrated approach
  - Delivering information real-time
  - Enabling real-time transaction capabilities
- A platform to seamlessly integrate business processes
  - Seamless access to account information
  - STP (straight through processing)
  - Deliver electronic contract notes
- Build efficiency in the system to reduce trade-to-settlement cycle time frame
- Creating the internet as a contingency and fall-back system to the VPN based network

### Solution Overview:-

The web based system allows investors to carry out their post trade settlement process at the click of a mouse. The designed system not only facilitates various types of transactions through the internet but also provides Account details such as “statement of holdings” for periodic intervals.

The information dissemination & issuing of holding details project is termed as EASI – “Electronic Access to Securities Information”. EASI aims to provide account holders with the facility to view their balances, ascertain the status of receipt/delivery instructions, obtain details of transactions effected through Demat account during the preceding 7 days. Besides “EASI” offers a unique facility of marking to market the holdings in the BO account which is valued at the previous day’s closing prices at BSE.

The existing business processes and various market participants relationship (in the offline world) has been replicated as is onto the online world with appropriate work flow mechanisms and escalation procedures.

Considering the complexity of the application and the mission critical nature of the application – A PKI infrastructure has been implemented. Moreover security has been considered both at the network level as well as over the internet. All transactional communication between the system and the users are carried out using 128-bit SSL. Taking into account the sensitivity of data, the data is stored in encrypted formats in the database. Only authorized users will be able to view their details.

- Over 6000 investors & 250 clearing members serviced through 160 DP's
- Over 1000 investors log in to “check the statement” of holdings daily

#### **Target Audience covered in the initiative**

- Investors
- Depository Participants
- Registrars and Transfer agents
- Issuers (companies)
- Custodians

#### **Technology**

- The solution was developed using BEA Web Logic application server and Oracle database server
- The solution was architected for robustness and scalability using clustering techniques for application servers with redundancy and failover mechanisms
- Open messaging layers for straight through processing
- Security platforms considered:
  - PKI infrastructure enabled for smart cards & USB tokens
  - multi-tiered security
    - SSL
    - username and password
    - physical devices like smart cards, e-tokens, etc