

Vision Technologies

Software Solutions Provider

PRODUCT COMPLIANCE CERTIFICATE

The Solution

Product **Vtrade (Online Trading System)**
Vendor/Provider **Vision Technologies**
Customer **Ismail Iqbal Securities (Private) Limited**

Description

The main objective of this software is to provide online trading platform to clients, dealers and branches over the Internet as well as local area network as per the Internet Trading Guideline issued by Securities and Exchange Commission Pakistan.

The System is capable to route client's requests to PSX trading engine through the FIX Protocol Version 4.2 provided by PSX.

System Architecture

The system comprises of the following Programming objects:

- Server / Client base architecture.
- Socket base connectivity.
- Secured encrypted communication.
- Design Patterns - Singleton
- Framework - Microsoft dotNET

Built-in Security Features:

The following security features are built-in in accordance with Clause 4 of Internet Trading Guidelines:

- Separate BackOffice for Client Management (User ID, Password, Pin code etc.).
- Separate View Only and Trading Clients Profiles.
- Encryption/Decryption.
- Complete Logs Management.

Operational Capacity:

The System is capable to handle 250 concurrent users / connections per interface / server.

Encryption:

AES 256 bit encryption is used. AES is based on the Rijndael cipher developed by two Belgian cryptographers, Joan Daemen and Vincent Rijmen, Rijndael is a family of ciphers with different key and block sizes.

AES was designed to be efficient in both hardware and software, and supports a block length of 128 bits and key lengths of 128, 192, and 256 bits.

