



STS

Stock Trading System



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TOPS

Total Asset Trading System

Overview

- Provides low latency trading for prop traders with arbitrage & scalp trading features
- Offer differentiated circumstance for ordering speed
- Algorithmic trading program for dealers on trading server
- Effectiveness, Reliability & Convenience of trading by dealer

Benefits

Low Latency Transaction

- Customized user interface
- Various trading monitor screen & basket trade
- Effective server processor configuration



Effective Supervision

- Combined supervision of securities, futures & options
- Real time calculation of profit & loss by strategy, employee, team, division
- Variety of user defined functions
- Real time market data/order management, interact with Excel

Effective Supervision of Dealer

- Different menus applied respectively to user(dealer's) access level
- Real time monitoring of profit & loss on dealer & division



Features

Order Management;

- Specified order feature
- Single / multi order feature
- Contract / balance management feature
- Total P&L inquiry feature by period

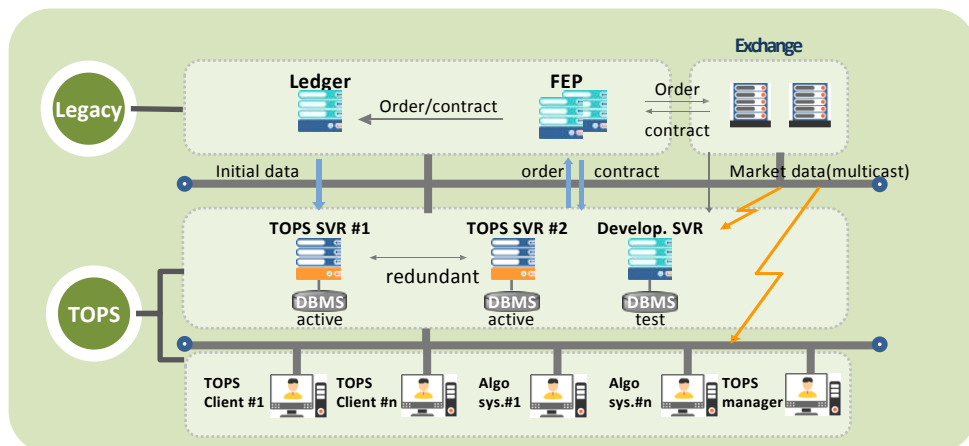
Consolidated Limits Management;

- Limits set-up / Monitoring
- Risk management to protect wrong ordering
- Feasibility of asking price
- Total limits management (price/amount/loss)

Mini Ledger Management;

- All kinds of master balance & consolidated unsettled limits
- Ledger & going price management(server / client)
- Order, contract & balance management
- Account information management

Configuration



Specification

Installation Environment

| server | | client |
|--------|--|-------------------|
| OS | Linux kernel | Window 7, 64 bits |
| others | x.86 equipment Server tuning/ independent CPU | - |

System Specification

| server | | client |
|--------|-------------------|--|
| OMS | Limits management | Market price receiving directly |
| | Low latency | Maximized multi core transaction |
| | Multi transaction | Enhanced transaction speed |
| | Load balancing | Effective data management with modulation Simplifying of data between PC & server |

FEP system

Front-End Processor

Overview

- As a dedicated FEP system, transact for encoding / decoding
- Distribution management for ordering / contract data , real time backup
- Duplication management for backup / DR server
- Management for channel interface, process operation and monitoring

Benefits

Experienced Know-how

- Realize system architecture for ordering speed with lots of references
- System duplication for reliability
- Linux kernel tuning know-how



Differentiation

- Server: BIOS setup tuning for the server with advanced chipset / processor
- O/S: Linux OS tuning with kernel/virtual memory/network parameters
- CPU: Working environment tuning with application zoning / NUMA(None Uniform Memory Access)
- Application: Memory based limits / multi transaction by work / load balancing policy

Effective System Management

- GUI for processor management / system monitoring
- Guarantee the stability through duplication for failure



Features

Order Transmitting Transaction;

- Management for customer access point: arrange dedicated order processor
- Order access point management: arrange share/exclusive of order line
- Order distribution management
→ Work stability & speed maximizing

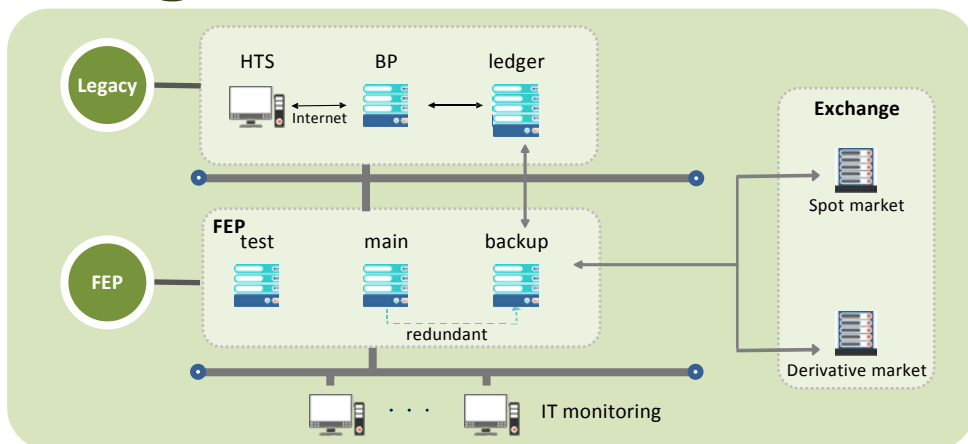
Contract Transmitting Transaction;

- Management for customer access point: data filtering/re-transaction support
- Contract access point management: arrange share/exclusive of contract line
- Contract data management: minimize of data competition
→ Minimize waiting time as transaction

Line Grouping;

- Arrange the share line for order/contract customer
- Arrange the exclusive line for order/contract customer
- Line failure management: forwarding to the other line

Configuration



Specification

| | Operation server | Development/test server |
|-----------|------------------------------------|-------------------------------------|
| OS | Linux(RedHat Enterprise 6.x) | Linux(RedHat Enterprise 6.x) |
| CPU | Intel® Xeon® CPU / 2.9GHz / 16Core | Intel® Xeon® CPU / 2.9 GHz / 16Core |
| RAM | 64 GB | 32 GB |
| Hard Disk | 300 GB | 300 GB |
| Language | C/C++ compiler | C/C++ compiler |

ELW-LP system

Equity Linked Warrant-Liquidity Provider

Overview

- Highly enhanced transaction performance & flexible maintenance with the load balancing structure between server & client
- Enhanced speed up for order/market data with the distributed/parallel transaction of process and memory DB application

Benefits

Enhancement Operation

- Using verified infrastructure through various trading systems
- Design to suit distributed/parallel server processing which leads to best performance for order/market data & DB processing

Rapid Transaction Performance

- Fast DB transactions using in-memory DBMS
- Client based system provides improved performance & flexibility

Effective Management & Administration

- Combined ELW-LP system & underlying asset hedge system provide ease of use for the dealers
- Provide market data interface with Excel for user convenience



Features

Stock Futures LP Management;

- Basic asset registration/ group management for LP operation
- LP automatic ordering
- LP safety: setting up response in market condition

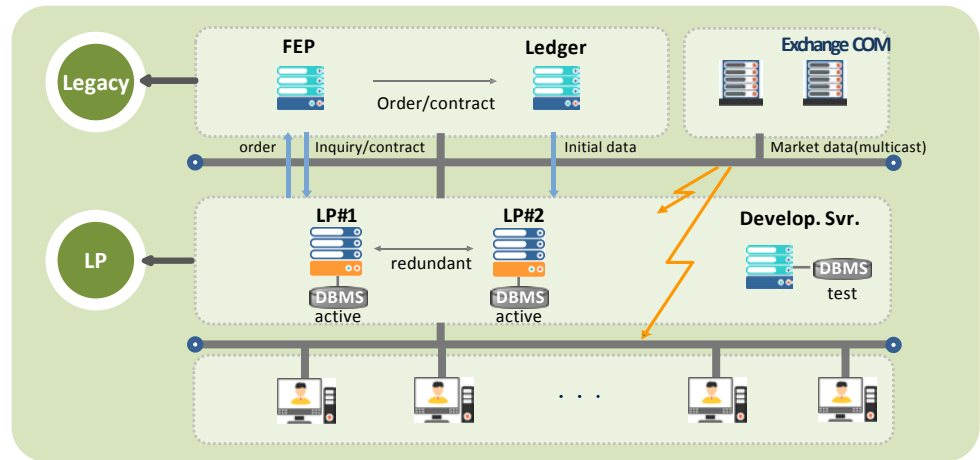
Stock Option LP Management;

- Basic asset registration / group management for LP operation
- LP automatic ordering
- LP safety: setting up response in market condition

LP ordering in manual & Limits management;

- LP spec order for manual ordering
- Trading restriction for management of restricted trading event
- Limits management to check of non-contracting limits in cumulative

Configuration



Specification

| Client | | Server |
|-----------|--------------------|-------------------------------------|
| OS | Windows(XP or 7) | Linux(RedHat Enterprise 6.x) |
| CPU | Intel -i7(3.0 GHz) | Intel® Xeon® CPU / 2.9 GHz / 16Core |
| RAM | 4 GB | 32 GB |
| Hard Disk | 200 GB | 300 GB |
| Language | - | C/C++ compiler/RDBMS(alibase ver.6) |