

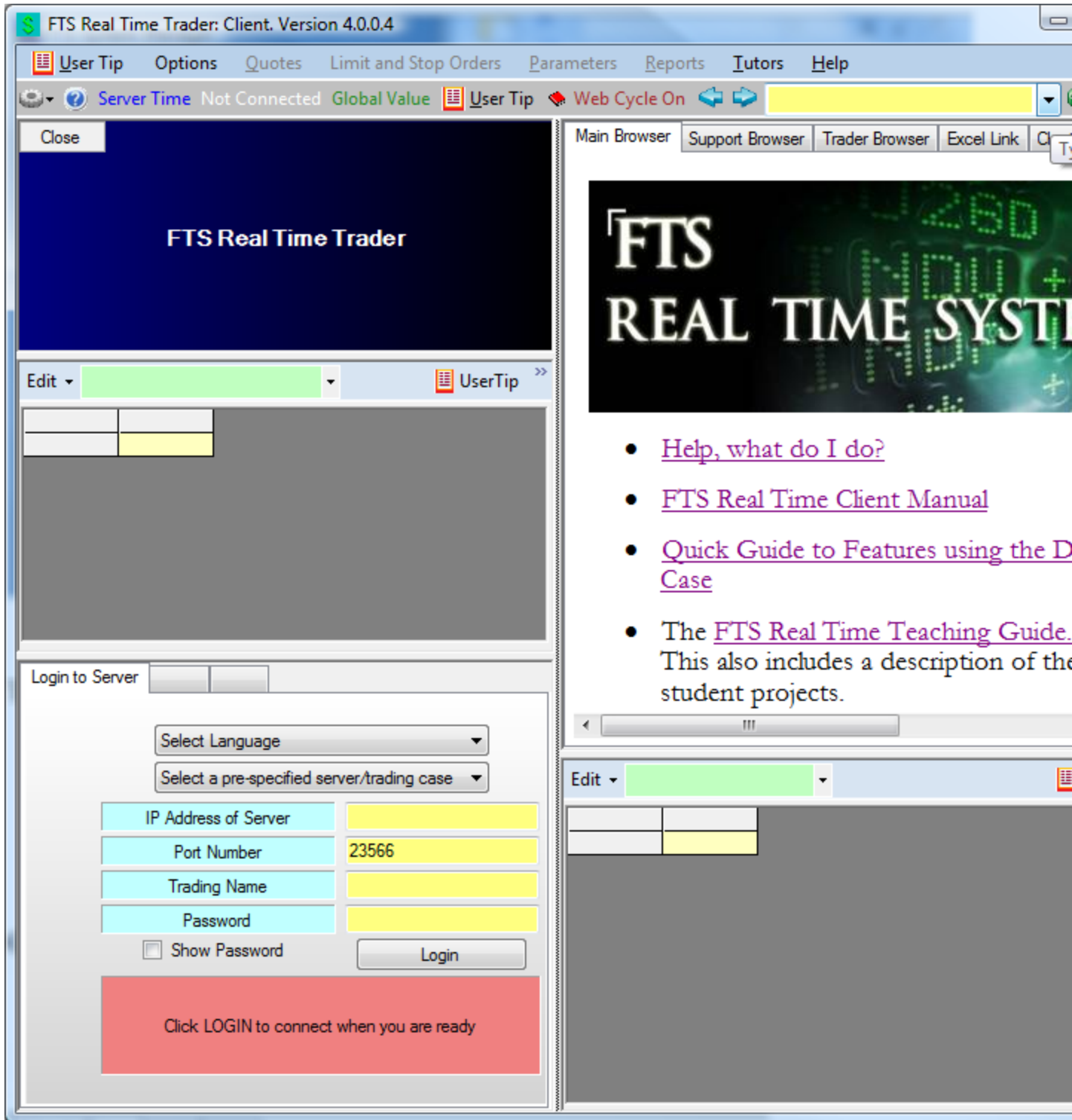


## FTS Real Time Client: Introduction

### Launching the FTS Real Time Client

Launch the FTS Real Time Trader Client from the System Manager by selecting it from the dropdown and clicking "Run Selected Application."

The application will launch and you will see the main screen:



**Logging in:**

- Your instructor assigns a case and your trading name and password
  - If you don't have these, please contact your instructor

- Click 'Select a pre-specified server/trading case' from the 'Login to Server' Tab at the bottom left:

The screenshot shows a 'Login to Server' dialog box. At the top left, there is a tab labeled 'Login to Server'. Below the tab, there is a 'Select Language' dropdown menu and a 'UserTip' button. The 'Select a pre-specified server/trading case' dropdown menu is circled in red. Below this, there are four input fields: 'IP Address of Server', 'Port Number' (with the value '23566'), 'Trading Name', and 'Password'. There is a checkbox labeled 'Show Password' and a 'Login' button. At the bottom, there is a red box with the text 'Click LOGIN to connect when you are ready'.

You will see the list of cases. Select the case you were assigned, and enter your trading name and password, and click the Login button

The screenshot shows the same 'Login to Server' dialog box. The 'IP Address of Server' field is filled with '#####'. The 'Port Number' field is filled with '23566'. The 'Trading Name' field is filled with 'trader1' and is circled in red. The 'Password' field is filled with 'password1' and is circled in red. The 'Show Password' checkbox is checked. The 'Login' button is circled in red. At the bottom, there is a red box with the text 'Click LOGIN to connect when you are ready'.

You will be connected to our server; you will see the Ticker Window, your position, information, and analytics:

FTS Real Time Trader: Client, Version 4.0.0.4

User Tip Options Quotes Limit and Stop Orders Parameters Reports Tutors Help

Server Time: 10/12/2010 4:09:30 PM Connected to Server Global Value: 1,010,619.69

Main Browser Support Browser Trader Browser Excel Link Charts FTS Modules

Ticker Window: Click on a Ticker to trade

User Tip File Edit Options

Note: Indicative Quotes Only. All settlement is at real-time prices at the server.

Ticker	Name	Currency	Description
AA	ALCOA	US Dollar	Stock
AXP	AMERICAN EXPRESS	US Dollar	Stock
BA	BOEING	US Dollar	Stock
BAC	BANK OF AMERICA	US Dollar	Stock
CAT	CATERPILLAR	US Dollar	Stock
CSCO	CISCO SYSTEMS	US Dollar	Stock
CVX	CHEVRON	US Dollar	Stock
DD	E I DU PONT DE NEMOURS	US Dollar	Stock
DIS	WALT DISNEY	US Dollar	Stock
GE	GENERAL ELECTRIC CO	US Dollar	Stock
HD	HOME DEPOT INC	US Dollar	Stock
HPQ	HEWLETT-PACKARD CO	US Dollar	Stock
IBM	INTERNATIONAL BUSINESS MACHINE	US Dollar	Stock
INTC	INTEL	US Dollar	Stock
JNJ	JOHNSON & JOHNSON	US Dollar	Stock
JPM	J.P. MORGAN CHASE & CO.	US Dollar	Stock
KFT	KRAFT FOODS	US Dollar	Stock
KO	COCA-COLA	US Dollar	Stock
MCD	MCDONALDS CORP	US Dollar	Stock

Overview FAQ

Edit US Dollar

Currency	Amount	Borrowed	Credit
US Dollar	906,360.69	0.00	100

Stocks	Position	Last	Last
ALCOA	100	13.20	1
AMERICAN EXPRESS	200	38.54	7
BANK OF AMERICA	200	13.52	2
CATERPILLAR	100	79.34	7
CHEVRON	200	83.84	16

Login to Server Trade Securities Asset Allocation

	Value	Beta	Exp Return	Volatility	Sharpe	Tre
Overall Position	104,259.00	0.9677	0.0807	0.1987	0.2152	0
Weight* (SS)		2.0737	0.1296	0.3888	0.2357	0
Weight* (no SS)		2.0737	0.1296	0.3888	0.2357	0
Eq Weighted		1.0183	0.0829	0.1935	0.2325	0
Benchmark		1.0000	0.0821	0.1875	0.2357	0
Position (Raw)		0.9677	0.0807	0.1987	0.2152	0

Name	Benchmark	Value	Beta	Risk Free Rate	Equity Premium	Exp Return	Vola
ALCOA	S&P 500 INDEX	1,320.00	2.1100	0.0379	0.0442	0.1312	0
AMERICAN EXPRESS	S&P 500 INDEX	7,708.00	2.1700	0.0379	0.0442	0.1338	0
AT&T	S&P 500 INDEX	0.00	0.6600	0.0379	0.0442	0.0671	0
BANK OF AMERICA	S&P 500 INDEX	2,704.00	2.4500	0.0379	0.0442	0.1462	0
BOEING	S&P 500 INDEX	0.00	1.3100	0.0379	0.0442	0.0958	0
CATERPILLAR	S&P 500 INDEX	7,924.00	1.8200	0.0379	0.0442	0.1184	0

### Market Orders:

To submit an order, double click on a ticker in the Ticker window, for example, BAC. The Trade Securities tab at the bottom left lets you submit market orders:

Login to Server Trade Securities Asset Allocation

User Tip Edit Limit Orders Quote Window

Enter part of a ticker name and click Search, or double click on the ticker in the Quote or the Ticker Definition

BAC

Search Names Search

BAC

BANK OF AMERICA in US Dollar

Cash Purchase

Quantity to Buy

Submit Order

	BANK OF AMERICA	US Dollar	US Dollar
Position Value	1,245.00	Cash Position	915,205.94
Cash Purchases	100	Cash Borrowed	0.00
Market Value	1,245.00	Credit Remaining	100,000.00
Margin Purchases	0	Borrowing Rate	0.6350%
Market Value	0.00	Lending Rate	0.1350%
Loan	0.00	Buy VWAP	0.0000
Deposit	0.00	Sell VWAP	0.0000
Equity	0.00	Buy Volume	0.00
Percentage	0.00	Sell Volume	0.00
Short Sales	0		
Market Value	0.00		
Deposit	0.00		
Cash Held	0.00		
Equity	0.00		
Percentage	0.00		
Div's Receivable	0.00		
Buy VWAP	12.73		
Sell VWAP	0.00		
Buy Volume	100.00		
Sell Volume	0.00		
Contract Size	1		

You will see your current position and the cash you have available. Simply select the trade type (Cash Purchase or Sale, Margin Purchase or Sale, Short Sale or Short Cover), enter the quantity, and click on Submit Order. The order will be submitted, and after a little while, you will get a trade confirmation. Your position will be updated. Here is the result of a cash purchase of CAT of 100 shares:

[Login to Server](#)
[Trade Securities](#)
[Asset Allocation](#)

[User Tip](#)
[Edit](#)
[Limit Orders](#)
[Quote Window](#)

Enter part of a ticker name and click Search, or double click on the ticker in the Quote or the Ticker Definition

CAT

Search Names

CAT

CATERPILLAR in US Dollar

Quantity to Buy

	CATERPILLAR	US Dollar	US Dollar
Position Value	6,516.00	Cash Position	907,299.06
Cash Purchases	100	Cash Borrowed	0.00
Market Value	6,516.00	Credit Remaining	100,000.00
Margin Purchases	0	Borrowing Rate	0.6350%
Market Value	0.00	Lending Rate	0.1350%
Loan	0.00	Buy VWAP	0.0000
Deposit	0.00	Sell VWAP	0.0000
Equity	0.00	Buy Volume	0.00
Percentage	0.00	Sell Volume	0.00
Short Sales	0		
Market Value	0.00		
Deposit	0.00		
Cash Held	0.00		
Equity	0.00		
Percentage	0.00		
Div's Receivable	0.00		
Buy VWAP	66.24		
Sell VWAP	0.00		
Buy Volume	100.00		
Sell Volume	0.00		
Contract Size	1		

**Position Display:**

Just above the trade tab is the position display. It shows you your position globally and by currency, and within a currency, you can select any subset of assets that you want to see. This report includes information about the average cost at which you bought securities, your gain/loss, etc, all calculated at current market prices:

Edit ▾ US Dollar ▾ All ▾ UserTip

Currency	Amount	Borrowed	Credit Left	Buy VWAP	Sell VWAP	Buy Volume	Sell Volume
US Dollar	907,299.06	0.00	100,000.00	0.0000	0.0000	0.00	0.0

Stocks	Position	Last	Last Value	Weight	Avg Cost	Total Cost	Gain/Loss
ALCOA	100	10.22	1,021.75	1.11	10.18	1,018.00	3.7
AMERICAN EXPRESS	200	39.87	7,974.00	8.64	40.30	8,060.00	-86.0
BANK OF AMERICA	200	12.45	2,490.00	2.70	12.68	2,536.00	-46.0
CATERPILLAR	100	65.16	6,516.00	7.06	66.24	6,624.00	-108.0
CHEVRON	200	74.08	14,816.00	16.04	73.50	14,700.00	116.0
EXXONMOBIL	100	59.11	5,911.00	6.40	58.98	5,898.00	13.0
GENERAL ELECTRIC CO	200	14.48	2,896.00	3.14	14.62	2,924.00	-28.0
INTERNATIONAL BUSINESS MACHINE	400	123.13	49,252.00	53.34	123.35	49,340.00	-88.0

Login to Server Trade Securities Asset Allocation

User Tip Edit ▾ Limit Orders Quote Window

Enter part of a ticker name and click Search, or double click on the ticker in the Quote or the Ticker Definition

CAT

Search Names

CAT

	CATERPILLAR	US Dollar	US Dollar
Position Value	6,516.00	Cash Position	907,299.06
Cash Purchases	100	Cash Borrowed	0.00
Market Value	6,516.00	Credit Remaining	100,000.00
Margin Purchases	0	Borrowing Rate	0.6350%
Market Value	0.00	Lending Rate	0.1350%
Loan	0.00	Buy VWAP	0.0000
Deposit	0.00	Sell VWAP	0.0000

**Information:**

When you double click on a ticker in the Quote window, information related to that security appears on the top right, e.g. for CAT:

The screenshot shows a trading software interface for Caterpillar Inc (CAT). The top navigation bar includes 'Main Browser', 'CAT', 'Trader Browser', 'Excel Link', 'Charts', and 'FTS Modules'. The left sidebar is a red navigation menu with the following categories:

- News
  - MSN News
  - Yahoo News
  - Google News
- Charts
- Beta/Dividend
  - MSN
  - Yahoo
  - Google
- Earnings News
  - Calendar
  - Yahoo
  - Google
  - MSN
- Earnings Forecast
- Fundamentals
  - Ann CshFlow
  - Ann Inc
  - Ann B/S
  - Qtr CshFlow
  - Qtr Inc
  - Qtr B/Sh
- SEC
  - SEC Filings

The main content area displays the following information:

- Snapshot: Add to Watchlist, Add to MSN List, Print report
- Charts: Historical
- News & Info: Recent News, Key Developments, Message Boards
- Fundamentals: Company Report, SEC Filings, Earnings Estimates, Financial Results, Insider Trading, Ownership
- Research: Advisor FYI, CAPS, StockScouter, Analyst Ratings
- Guided Research

The main quote section for Caterpillar Inc (CAT) shows a price of 65.16 unch fyi. Below this is a table of market data:

CAT quote (NYSE Exchange)			
Previous Close	65.16	Bid	66.00
Open	NA	Bid Size	100
Day's High	NA	Ask	66.35
Day's Low	NA	Ask Size	100
Volume	NA	52 Week High	72.83
Avg. Daily Vol. (13 wk.)	8.54 Mil	52 Week Low	43.19

Quotes delayed 20 min unless otherwise indicated

Sponsored sites:

- Stock Trading Education - [www.investools.com](http://www.investools.com)  
Get a 30-Day Risk-Free\* Trial! Over 450,000 students. Sign up Now.
- E\*TRADE: Trade Free Offer - [ETRADE.com](http://etrade.com)  
Trade Free for 60 Days. Powerful Tools & 24/7 Support. Sign up Now!

Your latest quotes: EWH, GE, AXP, CAT, IBM, BAC

You can select the information you want to see from the left hand side. The available information varies, and depends on the specific security.

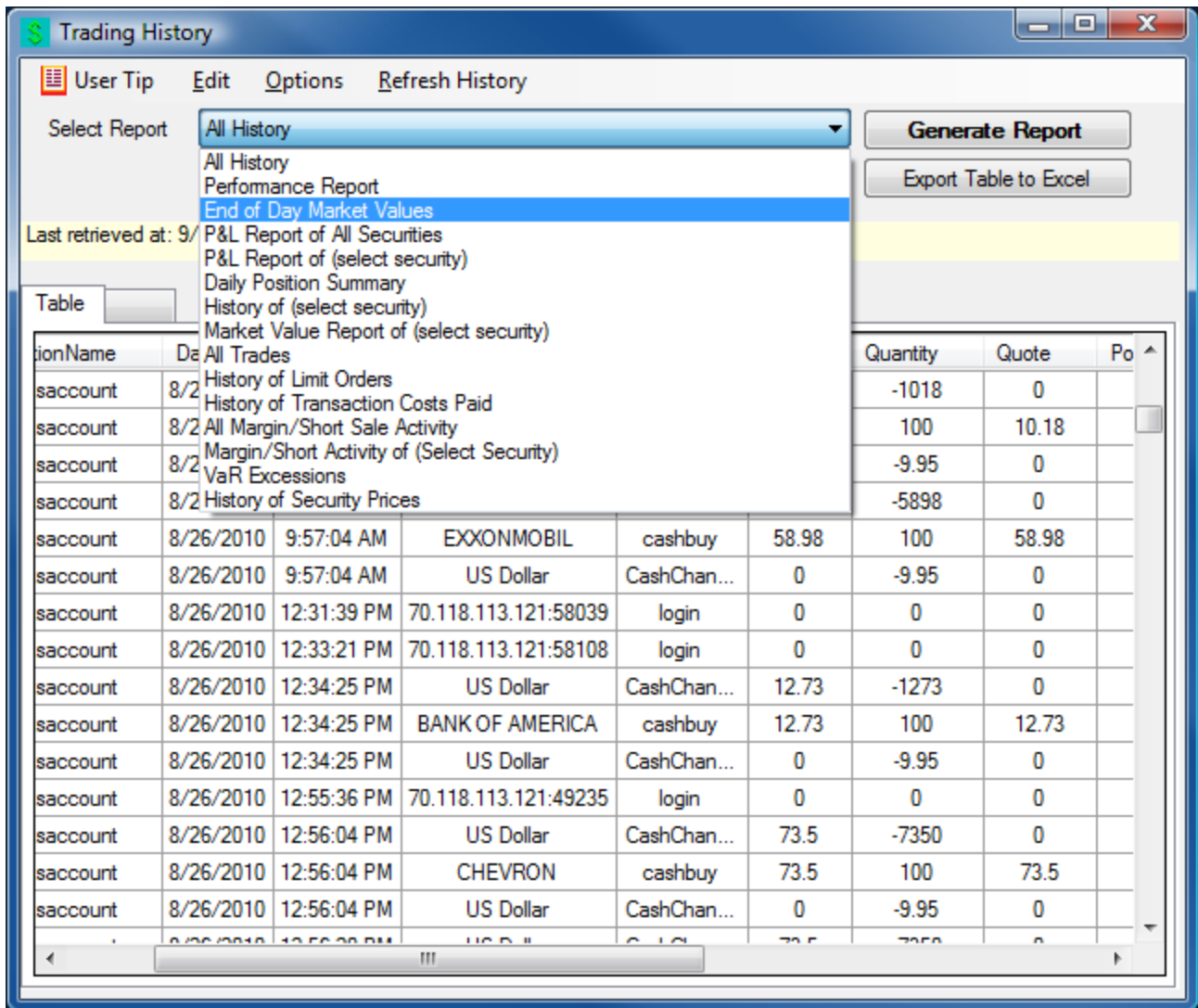
### History:

You can access your trading history at any time from the Reports menu item at the top:

The screenshot shows the FTS Real Time Trader software interface. The title bar reads "FTS Real Time Trader: Client. Version 4.0.0.4". The menu bar includes "User Tip", "Options", "Quotes", "Limit and Stop Orders", "Parameters", "Reports", "Tutors", and "Help". The status bar shows "Server Time: 9/1/2010 7:37:50 AM" and "Global Value: 999,639.81".

From this menu, select "Get Trading History and Reports" to obtain your history. This will appear in a new window, and you will see a variety of reports that you can generate:

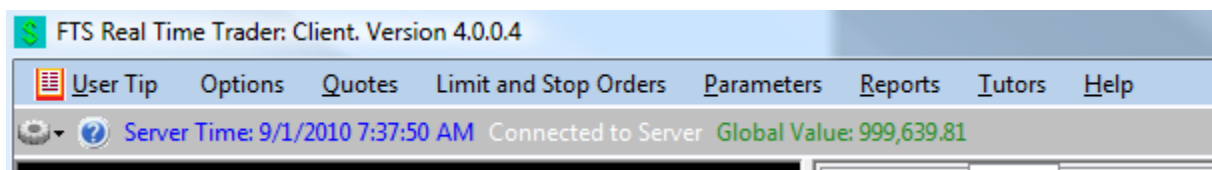




Select the report and then click “Generate Report.”

### Limit and Stop Orders:

Limit orders can be entered from the Limit Order Window, accessed from the menu at the top:



Click on “Limit and Stop Orders” to get:

Enter the ticker (or you can list all tickers and select the ticker), enter the price and quantity, select the order type, and click "Submit Order." You can modify and delete orders from this screen.

**Analytics:**

Analytics related to the trading case are presented at the bottom right, for example, for a stock trading case:

Edit		US Dollar	Stocks: Index Model (CAPM)	Parameters	UserTip	
			Select Analytics	Return	Volatility	Sharpe
Overall Position			Stocks: Index Model (CAPM)	0.0806	0.1997	0.0
Weight* (SS)			Stocks: Index Model (User)	0.1303	0.3924	0.0
Weight* (no SS)			Stocks: Covariances and Returns	0.1303	0.3924	0.0
Eq Weighted			Stocks: Covariances and Returns (CAPM)	0.0830	0.1953	0.0
Benchmark			Stocks: Portfolio Tracking	0.0821	0.1893	0.0
Position (Raw)			Stocks: Long Short Analysis	0.0806	0.1997	0.0
Name			Stocks: Backtest Portfolio	0.0373	0.0449	0.0
AMERICAN EXPRESS			Stocks: Dividend Model: 1 Stage	0.0373	0.0449	0.0
AT&T			Stocks: Dividend Model: 2 Stage	0.0373	0.0449	0.0
BANK OF AMERICA			Stocks: FCFE Model: 2 Stage	0.0373	0.0449	0.0
BOEING			Stocks: Residual Earnings Model	0.0373	0.0449	0.0
CATERPILLAR			Stocks: Abnormal Earnings Growth Model	0.0373	0.0449	0.0
			Stocks: Merton Model	0.0373	0.0449	0.0
			Stocks: Altman Model			
			Stocks: MCPM Model			

The analytics are calculated for a set of parameters supplied by the system. You can modify the parameters by clicking on Parameters in this display or from the menu at the top. The analytics you use and the parameters you modify depend on the assignment you have been give. These are explained in detail in the projects that accompany the FTS Real Time System.