Financial Software Systems™

Brilliant Performance in Financial Technology

Spectrum FRONT OFFICE

THE COMPLETE FRONT-OFFICE TREASURY SOLUTION

- **Comprehensive Financial Instrument Coverage**
- **Integration with Electronic Dealing Systems such as Bloomberg, EBS & Reuters**
- **Real-Time Position, P&L, Cashflow, Risk Management and Hedging Blotters**
- **Robust and Flexible Zero Coupon Curve Construction**
- **Real-Time Limit Monitoring for Counterparties, Traders, Countries and Currencies**
- **Designed to be Integrated With Any Back-Office System**

Overview

Spectrum Front-Office provides a complete trade capture and portfolio analysis solution for managing foreign exchange, fixed income, equity, and derivative contracts. Upon trade execution positions are instantly updated in Spectrum Front-Office to provide real-time data to all traders across a network. Spectrum is a high performance solution that for current users handles over 200,000 trades per day, and well over 500,000 open transactions.

Instrument Coverage

Spectrum allows users to easily process and manage the following financial instruments:

- Spot-Forward-Swap FX Contracts
- Non-Deliverable Forwards
- Time Options
- FX Futures & Options on Futures
- Vanilla and Exotic FX OTC Options
- Fixed Rate Money Markets
- Call Money
- FRAs
- Caps, Collars and Floors
- Interest Rate Futures & Options on Futures
- Interest Rate Swaps
- Swaptions
- Bonds & OTC Bond Options
- Floating Rate Notes
- Equities & OTC Equity Options

Electronic Trade Capture

Spectrum provides interfaces to a wide range of electronic dealings systems, including Bloomberg, EBS, Reuters, FXall and Currenex. The electronic interfaces eliminate duplicate keying of trades, and Spectrum's sophisticated Trade Importer allows automatic mapping of trades to Portfolios.

Optimized Manual Trade Capture Screens

Unique transaction input screens have been designed and optimized for Corporate and Interbank trades. Trades that have been executed over the phone can be quickly entered into Spectrum through screens specifically designed for each trade type. Once trades have been captured, whether electronically or manually, they are immediately available for viewing for position and risk monitoring purposes.

Real-Time Blotters and Analytic Tools

Spectrum features a range of advanced, real-time analytical tools which facilitate the management of complex positions. Spectrum's core risk management tools are a set of analytic blotters which display the complete sensitivity profile of a portfolio on a single screen. Spectrum's blotter

Spectrum
FRONT OFFICE

technology delivers flexibility and speed in analyzing complex portfolios, meeting the needs of both traders and risk managers. Spectrum's blotters display transaction and position data in real-time, refreshing portfolio information as fast as trades are entered into Spectrum from anywhere in the world. The blotters accept real-time market rate feeds from Bloomberg and Reuters to provide real-time mark-to-market P&Ls.

An unlimited number of blotters may be defined for any combination of trading center, desk, portfolio, trader, strategy, currency, transaction type, trade date range, and maturity date range. Blotters can be defined, saved, and reused.

Net Position Blotter

The Net Position Blotter aggregates trades by instrument type, currency or currency pair and value date. This blotter is highly customizable in its display format, and calculates and displays Daily, Monthly and Year-to-Date P&L for each position. Users can also add a choice of analytic values, such as average cost, delta, gamma, theta, vega, and rho, to the displays. Users can highlight a position and zoom-in to view the individual transactions that comprise the position.

Cash Flow Blotter

This blotter consolidates all cash flows of the portfolio by currency and by user-defined time buckets. Users may analyze the aggregate cash flows in all currencies by zooming-in on any cell in the grid display. With the press of a key, the Cash Flow Blotter displays both the discrete cash flows in every time bucket, and can also display cumulative cash flows to highlight Gap positions. Another key press converts actual cash flows into Present Value cash flows and Risk Equivalent cash flows.

Interest Rate Hedging Blotter

The Interest Rate Hedging Blotter is a powerful tool for assessing and managing interest rate risks. This blotter enables users to determine the P&L sensitivity of their portfolios to changes in the yield curve. The Interest Rate Hedging blotter maps cash flows from all instruments to user-defined time buckets, and then calculates and displays the P&L impact of shifts in the yield curve for each time bucket. In addition to calculating P&L changes, the Interest Rate Hedging Blotter will also calculate and display hedge equivalents to insulate the portfolios from yield curve shifts. For example, this blotter will calculate and display the number of futures contracts that must be bought or sold to offset yield curve shifts

Zero Coupon Curve Construction

Spectrum Front-Office enables users to define interest rate curves to present-value instruments for gain and loss monitoring, as well as to perform interest rate risk analysis. Users can utilize Spectrum's Curve Analyzer to view the zero curve rates and discount factors for specific curves. Zero coupon curves can be constructed from a variety of instruments, including deposits, futures, FRAs, swaps, and bonds. Each curve contains a user-defined set of market points for which rates are quoted in the market. Users can specify the curve segments, from 1 day to 50 years. Market rates used to construct the curves can be imported from any market rate source, such as Reuters or Bloomberg. An unlimited number of curves for all currencies can be defined.

Real-Time Limit and Collateral Checking

Counterparty risks, Trader risks, Country risks and Currency risks can be closely monitored with Spectrum's flexible Limits Module. Users can define a wide variety of limits, such as overall exposure limits, credit limits, settlement limits, and cash flow limits by financial product or for an aggregation of products. Limits may be weighted by financial product and are updated in real-time. Spectrum's limit browser provides a convenient screen to view all limits and their utilization with flexible filtering to drill-down to specific counterparties, products, and currencies.

World Headquarters
240 Gibraltar Road, Suite 200 • Horsham, PA 19044 USA
Tel +1 215 784 1100 • Fax +1 215 784 1101
www.finsoftware.com

Regional Offices

London	Miami	San Francisco	Singapore	Hong Kong	Hyderabad
Tel +44 (0) 207 709 7766	Tel +1 305 789 6689	Tel +1 415 982 8150	Tel +65 6438 3733	Tel +852 2566 9088	Tel +91 40 645 333 18
Fax +44 (0) 207 709 7767	Fax +1 305 372 0189	Fax +1 415 982 2502	Fax +65 6322 4135	Fax +852 2553 9128	Fax +91 40 400 478 52