



Spectrum FX Dealing Portal

BANK-TO-CUSTOMER FX DEALING OVER THE INTERNET

- **Powerful, Automated Internet Pricing for FX Spot, Forward, Swap and Time Option Contracts**
- **Ability to Apply "Wholesale" and "Retail" Spreads to the Underlying FX Rates**
- **Support for Hundreds or Thousands of Pricing Scenarios**
- **Support for Hundreds or Thousands of Simultaneous Internet Users**
- **Request for Quotes, with Auto-Quoting and Dealer Intervention Fully Supported**
- **Tightly Integrated with Spectrum to Provide Real-Time Front-Office Risk Management and Complete Back-Office Processing, Including Electronic Payments and General Ledger Entries**

Overview

Spectrum's FX Dealing Portal is an internet banking portal that provides a direct bank-to-customer channel so that a bank's customers can obtain competitive and executable FX quotes. The Spectrum FX Dealing Portal is designed for banks that want to serve knowledgeable FX customers -- primarily corporations and fund managers -- that are sensitive to the FX prices that the bank is quoting.

Spectrum's FX Dealing Portal provides highly configurable and completely automated FX pricing from a powerful price engine, and provides the full range of settlement and payment functions. The portal's settlement functions facilitate customer-directed and customer-controlled payments to third parties.

Spectrum's FX Dealing Portal is designed to support thousands of simultaneous users, and thousands of daily transactions over the internet. The FX Dealing Portal provides a consistent, controlled, and secure framework for banks to offer FX dealing and FX settlement services directly to their clients through the internet.

FX Instrument Coverage

The Spectrum FX Dealing Portal supports the pricing, trading and processing of the following FX instruments:

- Spot Contracts
- Forward Contracts
- Swap Contracts
- Time Options (Window Contracts)

FX Price Engine

The heart of the Spectrum FX Dealing Portal is the powerful Price Engine that sits behind the portal and provides the correct price for all of the bank's customers in all of the currency pairs that the bank offers. The prices generated by the FX Dealing Portal are constructed from underlying market rates, plus wholesale spreads plus retail spreads.

The FX Price Engine can accept underlying market prices from any market rate source, including liquidity providers and providers of indicative market rates, such as Reuters. Users define and control the currency pairs and the tenors of forward contracts that the bank will offer.

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After specifying underlying bid and offer rates for each currency pair, users can add “wholesale” and “retail” spreads to compensate for the risks and expenses that need to be managed by the bank.

The FX Dealing Portal supports adjustments to the currency pairs' bid and offer rates based upon the following factors:

- the Currency Pair being dealt
- Buying versus Selling the currency pair
- the Tenor of the transaction
- the FX Instrument being dealt (e.g., Spot trades versus Time Options)
- the Size of the Transaction
- the Type of Customer (e.g., a corporation versus a fund manager)

The FX Dealing Portal can automatically generate and process hundreds or thousands of FX pricing scenarios that result from the broad range of currency pairs, FX instruments, amounts and customers that are supported by the portal.

Dealer Intervention

In addition to automatically providing one-way or two-way prices for hundreds or thousands of pricing scenarios, the Spectrum FX Dealing Portal allows the users of the Portal to request a quote from a dealer rather than accepting the Auto Quote that is derived from the FX Price Engine. If a user of the FX Dealing Portal requests a quote from a dealer, an alarm can be sounded in the dealing room, and an Alert Monitor will immediately appear on the dealers' desktops in Spectrum. Any dealer can view and take ownership of a request arising from a user's Request for Quote. The dealer that chooses to deal with the request for quote can view all of the details of the proposed transaction and can revise the rate suggested by Spectrum's FX Price Engine, or can decline to provide a quote for the suggested transaction. In either event, the answer is sent back to the user of the Portal, and a full audit trail of the request for quote is generated and stored in Spectrum.

Workflow and Payment Processes

Prior to executing a FX transaction, the FX Dealing Portal allows users to organize their transaction workflows. Potential transactions can be saved in a "pending" state, which affords opportunities for netting and payment splitting. From the "pending" work queue, transactions can be selected by users for execution at any time.

The FX Dealing Portal allows users to define and store payment instructions. Standard payment instructions for repetitive payments can be defined in the FX Dealing Portal and can be selected with a mouse click. One-time payment instructions can be input through the portal. The FX Dealing Portal can enforce multiple levels of security to assure that only approved payment instructions can be applied, and that the payment instructions can be only be applied by authorized personnel.

Highly Secure Environment

The Spectrum FX Dealing Portal utilizes the latest Web 2.0 technologies to deliver a customizable user experience within a secure browsing environment. Security is assured through configurable end-to-end encryption, two factor authentication, and seamless integration with an enterprise single-sign-on service. The FX Dealing Portal leverages standard web service protocols, including SOAP and REST, which provide the greatest flexibility for integration with other banking and web-based systems.

Optional Back-Office Processing

Transactions captured via the FX Dealing Portal can be straight-through-processed within the Spectrum Back-Office System, including generating formal confirmations and General Ledger accounting entries. Trades captured via the portal can also be easily interfaced to other back-office systems on a real-time basis.

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