

Trade Life Cycle Management in FinPricing: Part 1



FinPricing



Trade Lifecycl

A trade, also called a deal, is an exchange of financial products from one entity to another. The life cycle of a trade is the fundamental activity of exchanges, investment banks, hedge funds, pension funds and many other financial companies.

All the steps involved in a trade, from the point of order placed and trade execution through to settlement of the trade, are commonly referred to as the trade life cycle. Trade life cycle consists of a series of logical stages and steps.



Summary

- Trade Lifecycle Introduction
- Trade Capture in FinPricing
- Trade Valuation and Validation in FinPricing
- Trade Payment Settlement
- Trade Termination



Trade Lifecycle

Trade Lifecycle Introduction

- Pre-sale stage: Marketing persons from investment banks, brokers and dealers introduce various financial products and vehicles to clients. Investors or institutional fund managers survey the market and find the most suitable and competitive products.
- Trade execution: After trading negotiations between seller and buyer, an order is placed and the trade is executed. The completion of a buy or a sell order of a financial product is known as Trade Execution.
- Trade Capture: After trade execution, the trade is booked in the Front Office system, Middle Office Risk Management system and Back Office system.



Trade Lifecycle

Trade Lifecycle Introduction (cont'd)

- Trade Validation and Confirmation: Back office validates trade attributes and confirms trade settlement. Risk Management checks the valuation, risks and limits.
- Trade Settlement: Any fee or premium needs to be settled. For a periodic cash settlement trade, such as interest rate swaps or bonds, there is a process of simultaneous exchange of cash between parties at each payment date.
- Trade Termination: A trade may be expired at maturity or terminated early. The early termination could be caused by a position sell or triggered by an early termination provision, such as auto call/cancel, knock-out, etc.



Trade Lifecycle

Trade Capture

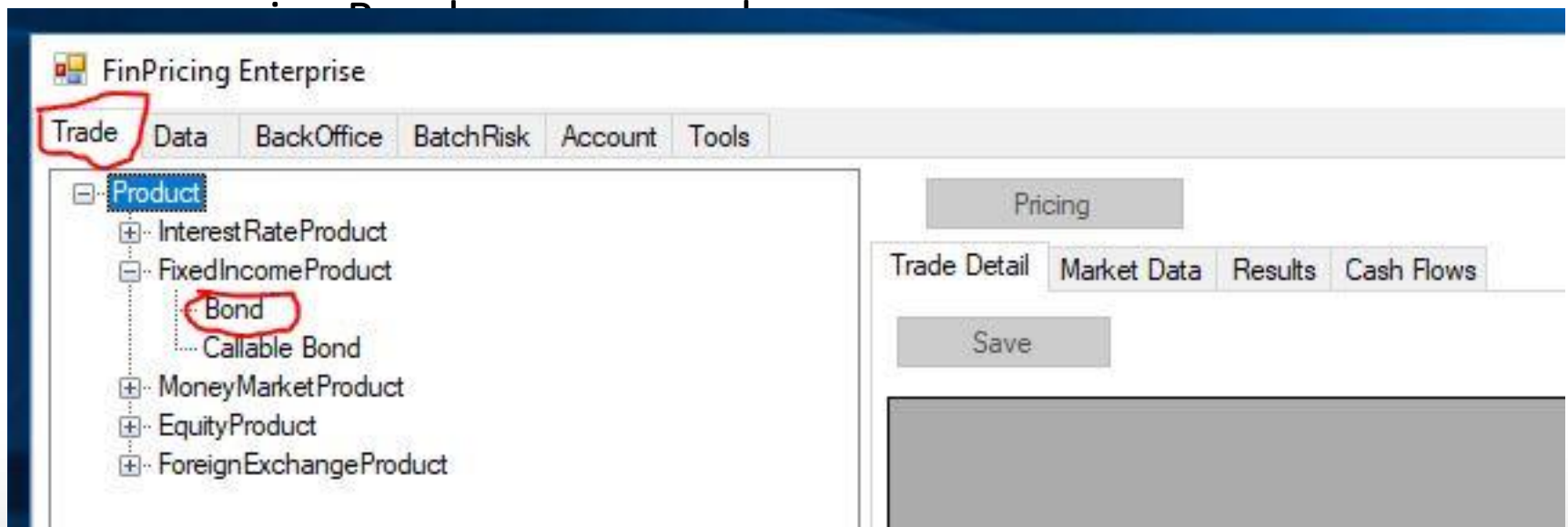
- First of all, a user needs to download and install FinPricing. After registering and logging in, the user should create at least one book to hold trades. You can find the instruction of managing books at <http://www.finpricing.com/faq/manageBook.html>. A book is a collection of financial assets. It could be a portfolio or trading strategy or desk. FinPricing portfolio management supports multi-level book(portfolio) hierarchies.
- FinPricing provides two interfaces for users to capture trades:
 - Book a single trade
 - Book multiple batch trades



Trade Lifecycle

Trade Capture – How to Book a Single Trade in FinPricing?

- Click the Trade tab at the top-left corner of the application. Then, expand Product -> FixedIncomeProduct. Next, select the Bond. Here





Trade Lifecycle

Trade Capture – How to Book a Single Trade in FinPricing? (Cont'd)

- A selection window pops up, allowing users to select a book to hold the new trade. Note that trades should be stored in leaf node books only. After a book selected, all bond trades within this book are displayed in the main window

Selection - FinPricing Enterprise

New Load Delete Valuation Date

Book

- NewYork
 - Interest Rate
- Toronto
 - Mike
 - David

TradeId	ProductName	Status	IssueDate	MaturityDate
T000000120040...	FiBond	Active	2018-02-10	2028-05-10
T000000120040...	FiBond	Active	2016-05-02	2020-04-30
T000000120040...	FiBond	Active	2008-05-16	2028-05-15
T000000120040...	FiBond	Active	2018-03-02	2030-08-31
*				



Trade Lifecycle

Trade Capture – How to Book a Single Trade in FinPricing? (Cont'd)

- Users can select an existing trade and then click the Load button to extract the trade details for modification, validation, and what-if analysis. But this section is mainly focused on creating a new trade.
- Next, click the New button. A bond definition template is displayed in the main window. Fill the template and click the Save button.



Trade Lifecycle

Trade Capture – How to Book a Single Trade in FinPricing? (Cont'd)

FinPricing Enterprise

Trade Data BackOffice BatchRisk Account Tools

Product

- InterestRateProduct
- FixedIncomeProduct
 - Bond
 - Callable Bond
- MoneyMarketProduct
- EquityProduct
- ForeignExchangeProduct

Pricing

Trade Detail Market Data Results Cash Flows

Save

Column0	Column1
Bond Definition	
Name	Value
Book	Interest Rate
Status	Active
IsinOrCusip	912828XN8
BuySell	Buy
Calendar	NYC
CouponType	Fixed
Currency	USD
FirstCouponDate	10/31/2015
InterestAccrualDate	7/31/2015
IssueDate	7/31/2015
LastCouponDate	4/30/2025
MaturityDate	7/31/2025
SettlementDate	7/31/2015
SettlementLag	1
Notional	100
PayReceive	Receive
DayCount	dcAct360
PaymentFrequency	3M
Coupon	0.04
Spread	0
BondCurveName	



Trade Lifecycle

Trade Capture – How to Book a Single Trade in FinPricing? (Cont'd)

- If you input all the data in correct format, especially the dates, you will see the OK window pops up. That means the new trade has been created in the system.

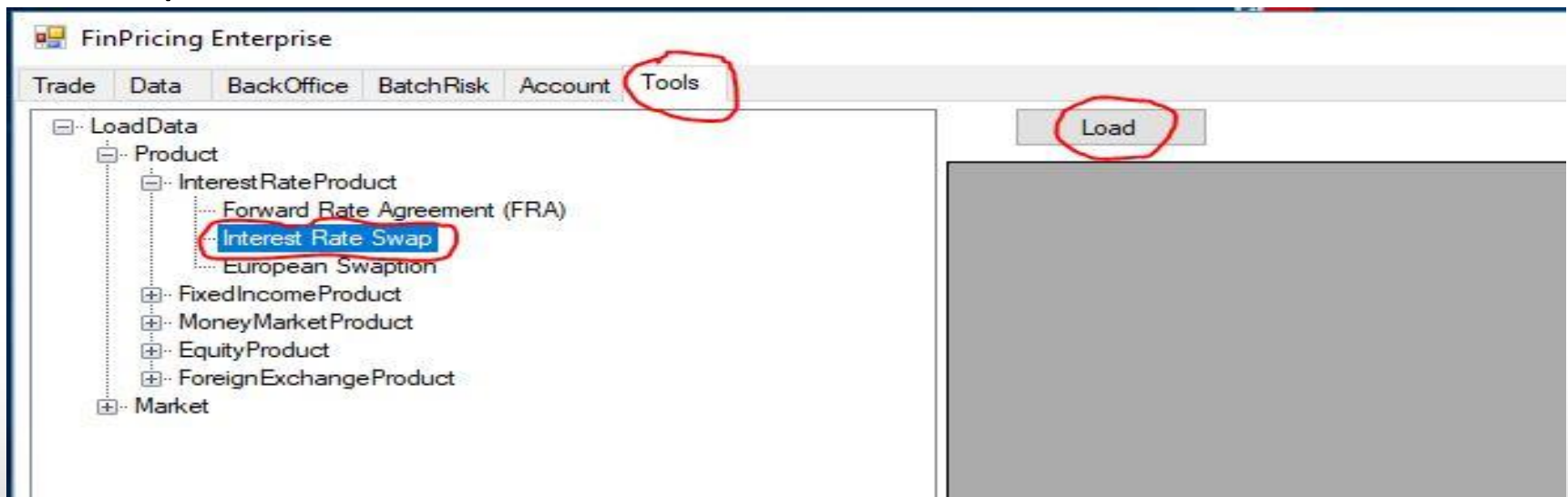




Trade Lifecycle

Trade Capture – How to Book Multiple Bulk Trades in FinPricing?

- Click the Tool tab at the top-left corner of the application. Next, expand Product -> InterestRateProduct. Then, select the Interest Rate Swap.

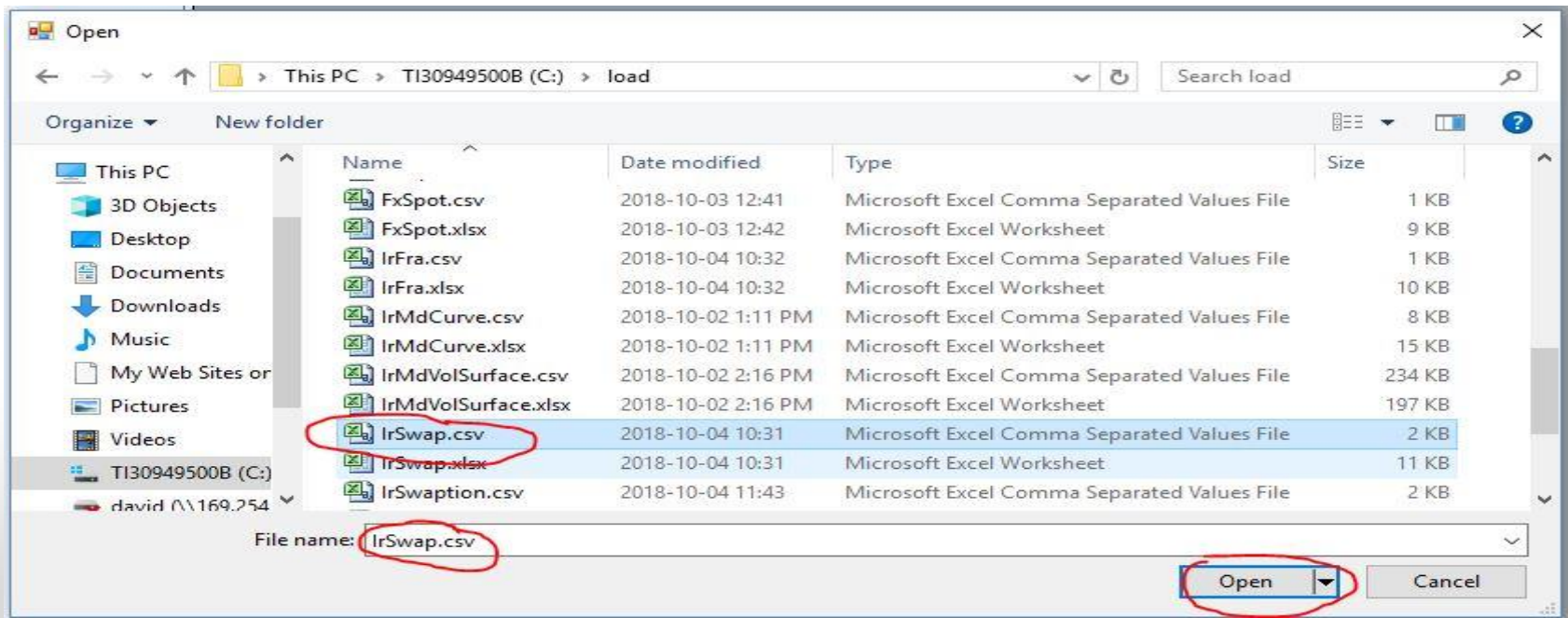




Trade Lifecycle

Trade Capture – How to Book Multiple Bulk Trades in FinPricing? (Cont'd)

- Next, click the Load button. A window pops up allowing users to browse the local folders and select files.
- After selecting a bulk trade file that is in csv format, click the Open button.





Trade Lifecycle

Trade Capture – How to Book Multiple Bulk Trades in FinPricing? (Cont'd)

- FinPricing starts to load all the trades defined in the file. Finally a summary table is displayed in the main window telling you how many trades are successfully loaded and how many of them fail.

The screenshot shows the FinPricing Enterprise application window. The 'LoadData' tree on the left lists various financial products and markets. The 'Load' button is visible above the summary table. The table displays the results of the trade loading process, with a red circle highlighting the first five rows, all of which were loaded successfully.

	Trade Count	Load Status	Error
▶	1	Success	
	2	Success	
	3	Success	
	4	Success	
	5	Success	
*			



Thank You

You can find more details at

<https://finpricing.com/lib/EqBarrier.html>